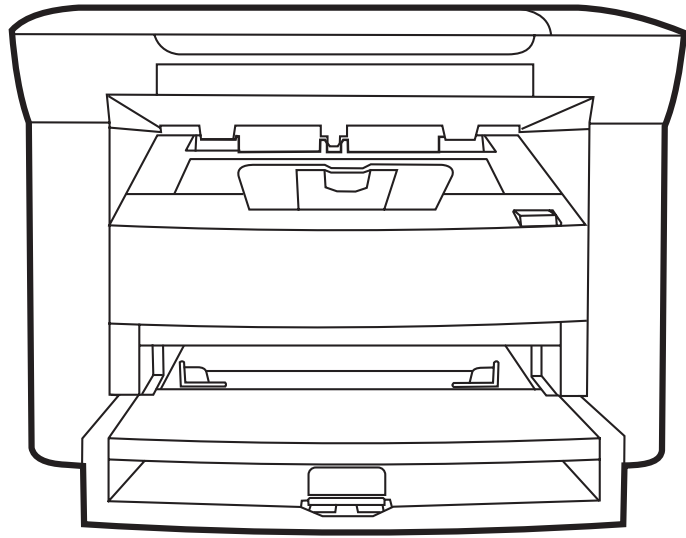


# HP LaserJet M1005 MFP

## Software Technical Reference





# HP LaserJet M1005 MFP

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## Software Technical Reference



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# Table of contents

## 1 Purpose and scope

Introduction .....	1
Device features .....	3
HP LaserJet M1005 MFP software .....	4
MS Windows system requirements .....	4
Operating-system support .....	4
Standalone drivers .....	4
Print driver support in other operating systems .....	5
Availability .....	5
Software on the Web .....	5
In-box software CD .....	5
Windows partition .....	5
CD versions .....	7
HP LaserJet documentation .....	9
HP LaserJet M1005 MFP User Guide .....	10
Hewlett-Packard LaserJet M1005 MFP Install Notes .....	10

## 2 Software description

Introduction .....	13
MS Windows software .....	14
Software and installer .....	14
HP LaserJet M1005 MFP software CD for MS Windows systems .....	14
Installer features .....	15
HP LaserJet host-based print driver .....	16
Print-driver version numbers for MS Windows operating systems .....	16
HP Extended Capabilities .....	17
HP Status Application .....	18
Scanning system .....	19
Scanning methods .....	19
HP LaserJet Scan software .....	19
E-mail .....	22
Scan drivers .....	22
TWAIN DRIVER .....	22
TWAIN compatibility .....	22
TWAIN scanning does not work with some programs .....	23
Additional information about TWAIN .....	23
TWAIN driver user interface (MS Windows) .....	23
WIA driver .....	30
Supported third-party software .....	32

Text-recognition software .....	32
About text-recognition reliability .....	32
Readiris text-recognition software .....	32

### 3 Install MS Windows software components

Installation overview .....	36
Installation options .....	37
MS Windows installation for direct connections .....	37
Set up MS Windows Sharing (peer-to-peer networking) .....	37
Set up the MS Windows 2000 host computer .....	38
Set up the MS Windows XP or MS Windows Server 2003 host computer .....	38
Set up the client computers .....	38
Installation dialog box options for MS Windows 2000, MS Windows XP, and MS Windows Server 2003 .....	40
Uninstall .....	46
Uninstall instructions for MS Windows 2000, MS Windows XP, and MS Windows Server 2003 .....	46
Uninstall, add, or repair by using the installation CD .....	49

### 4 Host-based driver features for MS Windows

Introduction to host-based printing .....	52
Access to the driver .....	53
Printing Preferences tab set .....	53
Properties tab set .....	53
Help system .....	54
What's this? Help .....	54
Context-sensitive Help .....	54
Paper Type Warning .....	54
Driver tabs .....	55
Printing Preferences tab set .....	55
Advanced tab features .....	55
Paper/Output .....	56
Collate .....	56
Copy .....	56
Printer Features .....	57
Print all Text as Black .....	57
REt .....	57
Paper/Quality tab features .....	57
Print Task Quick Sets .....	58
Default Print Settings .....	59
User's Manual .....	59
Type new Quick Set name here .....	59
Paper Options .....	59
Size is: .....	60
Use Different Paper/Covers check box .....	61
Custom Paper Size group .....	61
Source is: .....	62
Type is: .....	62
Use Different Paper/Covers options .....	63
Front Cover and Back Cover options .....	64

First Page, Other Pages, and Last Page options .....	65
Document preview image .....	65
Print Quality .....	65
Effects tab features .....	66
Print Task Quick Sets .....	67
Resizing Option .....	68
Actual Size .....	68
Print Document On .....	68
Scale to Fit .....	68
% of Normal Size .....	69
Document preview image .....	69
Watermarks .....	69
Current Watermarks .....	70
Watermark Message .....	71
Message Angle .....	71
Font Attributes .....	71
Name .....	71
Color .....	71
Shading .....	72
Size .....	72
Style .....	72
Finishing tab features .....	72
Print Task Quick Sets .....	73
Document Options .....	74
Print on Both Sides .....	74
Instructions for manually printing on both sides .....	75
Flip Pages Up .....	75
Booklet layout .....	75
Book and booklet printing .....	76
Printing a Booklet .....	76
Printing a book .....	76
Pages per Sheet .....	76
Print Page Borders .....	77
Page Order .....	77
Document preview image .....	77
Orientation .....	78
Portrait option button .....	78
Landscape option button .....	78
Rotate by 180 degrees check box .....	78
Services tab features .....	78
Properties tab set .....	79
Device Settings tab features .....	80
Jam Recovery .....	80
Print density .....	80
Status Message .....	81
Courier Font Type .....	81
Allow Manual Duplexing .....	81
About tab features .....	81
Driver Files: .....	82

Configuration Status: .....	82
-----------------------------	----

## 5 Macintosh

Introduction .....	83
Macintosh printing-system software .....	84
System requirements .....	84
Availability .....	84
Software on the Web .....	84
Macintosh software .....	85
Software component availability .....	85
In-box printing-system software CDs .....	85
Macintosh partition .....	85
CD versions .....	85
Macintosh install and uninstall instructions .....	86
Macintosh component descriptions .....	86
PDEs .....	86
Install notes .....	86
Online help .....	86
Screen fonts .....	86
Install the Macintosh software .....	86
General installation for Macintosh operating systems .....	87
Installation dialog-box options for Macintosh .....	87
Device setup .....	91
Uninstall .....	91
Uninstall the Macintosh software .....	91
Macintosh remote firmware updates .....	92
Remote firmware update by using the HP Printer Utility .....	92
TWAIN driver user interface (Macintosh) .....	93

## 6 Engineering Details

Introduction .....	95
Media attributes .....	96
Media sources and destinations .....	96
Driver-supported media sizes .....	96
Driver-supported media types .....	98
Custom paper sizes .....	99
Remote firmware updates .....	100
Print a configuration page .....	100
Downloading the new firmware from the HP Web site .....	100
Download new firmware to the device .....	100
Device messages during the firmware update .....	101

Index .....	103
-------------	-----



# List of tables

Table 1-1	Software technical reference overview .....	1
Table 1-2	Features of the HP LaserJet M1005 MFP .....	3
Table 1-3	BA - KO .....	7
Table 1-4	NL - ZHTW .....	8
Table 1-5	Documentation availability .....	9
Table 2-1	Supported e-mail programs .....	22
Table 4-1	Standard paper types and engine speed .....	62
Table 4-2	Page orientation .....	75
Table 5-1	Adding a printer in Macintosh operating systems .....	87
Table 6-1	HP LaserJet M1005 MFP media sources and destination .....	96
Table 6-2	Supported media sizes and attributes .....	96
Table 6-3	Supported input media types .....	98
Table 6-4	Custom media sizes .....	99
Table 6-5	Troubleshooting a firmware update .....	101
Table 6-6	Troubleshooting a firmware update failure .....	101
Table 6-7	Update messages .....	102



# List of figures

Figure 1-1	Installation software CD documentation and support screen .....	9
Figure 2-1	Installation software CD browser .....	15
Figure 2-2	Welcome to the HP Product Survey Program screen .....	17
Figure 2-3	Sample pop-up error status message .....	18
Figure 2-4	hp LaserJet Scan dialog box .....	20
Figure 2-5	Scan Settings dialog box .....	21
Figure 2-6	TWAIN driver user interface (MS Windows) .....	23
Figure 2-7	TWAIN driver user interface – Resize .....	25
Figure 2-8	TWAIN driver user interface – Resolution .....	26
Figure 2-9	TWAIN driver user interface – Lighten/Darken .....	27
Figure 2-10	TWAIN driver user interface – Sharpen .....	28
Figure 2-11	TWAIN driver user interface – Color Adjustment .....	29
Figure 2-12	TWAIN driver user interface – B/W Threshold .....	30
Figure 3-1	Step 1 - Welcome dialog box .....	40
Figure 3-2	Step 2 - HP Software License Agreement dialog box .....	41
Figure 3-3	Step 3 - Settings dialog box .....	42
Figure 3-4	Step 4 - HP LaserJet M1005 MFP Setup dialog box .....	43
Figure 3-5	Step 5- HP Extended Capabilities dialog box .....	43
Figure 3-6	Step 6 - Setup Complete! dialog box .....	44
Figure 3-7	Step 7 - Exit Setup .....	45
Figure 3-8	Step 8 - Setup Interrupted .....	45
Figure 3-9	The HP LaserJet M1005 MFP Uninstall Wizard .....	46
Figure 3-10	HP LaserJet M1005 MFP Driver Uninstall information dialog box .....	47
Figure 3-11	HP LaserJet M1005 MFP Driver Uninstall information - unplug device dialog box .....	47
Figure 3-12	Uninstall complete! dialog box .....	48
Figure 3-13	Welcome Back! screen .....	49
Figure 4-1	HP LaserJet M1005 MFP host-based driver overview .....	52
Figure 4-2	A typical paper type warning .....	54
Figure 4-3	Advanced tab .....	56
Figure 4-4	Paper/Quality tab .....	58
Figure 4-5	Paper Options group box .....	60
Figure 4-6	Custom Paper Size dialog box .....	61
Figure 4-7	Front Cover setting .....	64
Figure 4-8	First Page, Other Pages, and Last Page options .....	65
Figure 4-9	Effects tab .....	67
Figure 4-10	Preview images - Legal on Letter; Scale to Fit off (left) and on (right) .....	68
Figure 4-11	Watermark Details .....	70
Figure 4-12	Finishing tab .....	73
Figure 4-13	Print on Both Sides Instructions .....	74
Figure 4-14	Page-order preview images .....	77

Figure 4-15	Services tab .....	79
Figure 4-16	Device Settings tab .....	80
Figure 4-17	About tab .....	82
Figure 5-1	Step 1 - Insert the HP LaserJet M1005 MFP software CD .....	87
Figure 5-2	Step 2 - Run the printing-system software CD .....	88
Figure 5-3	Step 3 - Main CD screen .....	88
Figure 5-4	Step 4 - License agreement, screen 1 .....	88
Figure 5-5	Software License Agreement, screen 2 .....	89
Figure 5-6	Step 5 - Select a destination .....	89
Figure 5-7	Step 6 – Easy Install process .....	89
Figure 5-8	Step 7 - Authenticate .....	90
Figure 5-9	Step 8 - Install files .....	90
Figure 5-10	Step 9 - Restart .....	90
Figure 5-11	Printer List screen .....	91
Figure 5-12	The configuration is not supported. screen (Macintosh) .....	93
Figure 5-13	Image Capture Devices screen (Macintosh) .....	93
Figure 5-14	HP LaserJet M1005 MFP preview image settings screen (Macintosh) .....	94
Figure 5-15	HP Scan Settings screen (Macintosh) .....	94

# 1 Purpose and scope

## Introduction

This software technical reference (STR) provides information about and troubleshooting tips for the HP LaserJet M1005 MFP software.

This STR is prepared in an electronic format to serve as a quick-reference tool for Customer Care Center (CCC) agents, support engineers, system administrators, management information systems (MIS) personnel, and HP LaserJet M1005 MFP end users, as appropriate.

The following information is included in this STR:

- Descriptions of print drivers, operating system support, and system modifications
- Procedures for installing and uninstalling software components
- Descriptions of various HP LaserJet M1005 MFP topics, including engineering details

The following table describes the structure of this STR.

**Table 1-1** Software technical reference overview

Chapter	Content
Chapter 1, Purpose and scope	<p>This chapter contains basic information about the HP LaserJet M1005 MFP and the HP LaserJet M1005 MFP software:</p> <ul style="list-style-type: none"> <li>• Overview of the HP LaserJet M1005 MFP</li> <li>• Printing-system software overview, including the following topics: <ul style="list-style-type: none"> <li>• System requirements</li> <li>• Operating-system support</li> <li>• Availability</li> </ul> </li> <li>• HP LaserJet software documentation</li> </ul>
Chapter 2, Software description	<p>This chapter provides an overview of the printing-system software installer and print drivers.</p> <p>This chapter also contains general information about other software features, including the following topics:</p> <ul style="list-style-type: none"> <li>• HP LaserJet Scan software program and driver</li> <li>• Readiris Professional text-recognition</li> </ul>
Chapter 3, Install Microsoft® (MS) Windows® printing-system components	<p>This chapter provides instructions for installing the HP LaserJet M1005 MFP in MS Windows operating systems.</p>

**Table 1-1** Software technical reference overview (continued)

Chapter	Content
Chapter 4, Host-based driver features for MS Windows	This chapter provides detailed descriptions of the host-based driver features for MS Windows.
Chapter 6, Installation for Macintosh operating systems	This chapter provides instructions for installing the HP LaserJet M1005 MFP in Macintosh operating systems and using Macintosh features.
Chapter 7, Engineering details	<p>This chapter contains information about the following special topics:</p> <ul style="list-style-type: none"><li>• Media attributes</li><li>• Remote firmware update</li></ul>

For information about the location of information within chapters, see the table of contents. An index is provided in this STR.

Additional detailed information about the HP LaserJet M1005 MFP software is published in an addendum to this STR. The following information is available only in the addendum:

- Lists of installed files
- System-modification information, such as changes to the registry and registry keys
- Descriptions of known software issues and solutions


Topics:

- [Device features](#)
- [HP LaserJet M1005 MFP software](#)
- [HP LaserJet documentation](#)

## Device features

The following table describes the features of the device.

**Table 1-2** Features of the HP LaserJet M1005 MFP

Feature	HP LaserJet M1005 MFP
HP Product Number	CB376A
Memory	<ul style="list-style-type: none"> <li>32 megabytes (MB) of random-access memory (RAM)</li> </ul>
Speed	<ul style="list-style-type: none"> <li>Prints letter-size pages at speeds up to 15 pages per minute (ppm) and A4-size pages at speeds up to 14 ppm.</li> <li>First page out in less than 10 seconds</li> </ul>
Connectivity	<ul style="list-style-type: none"> <li>A 2.0 hi-speed universal serial bus (USB) port</li> </ul>
Paper handling	<ul style="list-style-type: none"> <li>Manual feed tray holds up to 10 sheets of print media or 3 envelopes</li> <li>Tray 1 holds up to 150 sheets of print media or 10 envelopes</li> <li>Output bin holds up to 100 sheets of print media</li> </ul>
Print	<ul style="list-style-type: none"> <li>Prints at 600 dots per inch (dpi) and FastRes 1200 dpi</li> <li>Includes adjustable settings to optimize print quality</li> <li>Average yield for the standard black cartridge is 2000 pages in accordance with ISO/IEC 19752. Actual yield depends on specific use.</li> <li>HP LaserJet M1005 MFP host-based driver</li> </ul>
Copy	<ul style="list-style-type: none"> <li>Copies at 300 dpi</li> </ul>
Scan	<ul style="list-style-type: none"> <li>HP LaserJet Scan software and driver</li> <li>Provides 1200 pixels per inch (ppi) full-color scanning</li> <li>Readiris optical character recognition (OCR)</li> </ul>
	<div>  <p><b>NOTE</b> The OCR software is not installed with the other software. Separate software CD and installation is required.</p> </div>
Printer driver features	<ul style="list-style-type: none"> <li>FastRes 1200 produces 1200 dpi print quality for fast, high-quality printing of business text and graphics</li> </ul>
Economical printing	<ul style="list-style-type: none"> <li>Provides N-up printing (printing more than one page on a sheet)</li> <li>Provides an EconoMode setting, which uses less toner</li> </ul>
Supplies	<ul style="list-style-type: none"> <li>Uses a no-shake print cartridge</li> </ul>

# HP LaserJet M1005 MFP software

Topics:

- [MS Windows system requirements](#)
- [Operating-system support](#)
- [Availability](#)

## MS Windows system requirements

- Pentium® II or compatible processor
- 233-MHz processor with 64 MB RAM
- 35 MB of disk space
- Minimum 16-color/grayscale display with 800 x 600 pixel resolution super video graphics array (SVGA)
- Onboard USB port
- CD-ROM drive or internet connection

## Operating-system support

MS Windows operating systems provide full-featured support for the HP LaserJet M1005 MFP. Operating systems that are not described in this document provide varying levels of functionality.

Throughout this document, Windows XP is used to denote Windows XP Home Edition, Windows XP Professional, and Windows Server 2003, unless noted otherwise.

The HP LaserJet M1005 MFP has *not* been tested with and is not supported in the MS Windows 3.1x or MS Windows 95 operating systems.

The MS Windows NT® 4.0, Windows 98 SE, and Windows Millennium Edition (ME) operating systems do *not* support the HP LaserJet M1005 MFP. Print drivers for the device are *not* included on the printing-system software CD or on the Web.

For more information about the HP LaserJet M1005 MFP, go to the following Web site:

[www.hp.com/support/ljM1005](http://www.hp.com/support/ljM1005)

Topics:

- [Standalone drivers](#)
- [Print driver support in other operating systems](#)

## Standalone drivers

The following operating systems support the HP LaserJet M1005 MFP software:

- Windows 2000
- Windows XP (32-bit)
- Windows Server 2003



## Print driver support in other operating systems

The HP LaserJet M1005 MFP is also supported in the following operating system:

- Mac OS X V10.3 and later

## Availability

Download the software from the Web, or order it on a CD from HP fulfillment centers.



**NOTE** This STR describes drivers that are shipped with the printing-system software CD. This STR does *not* describe any drivers that might be released by support personnel.

Topics:

- [Software on the Web](#)
- [In-box software CD](#)

## Software on the Web

All software that is contained on the installation CD is also available on the Web.

Web deployment is the preferred method for obtaining the latest software. The HP Web site offers an option for automatic e-mail notification of new software releases.

The HP LaserJet M1005 MFP software is available for download at the following Web site:

[www.hp.com/go/ljM1005\\_software](http://www.hp.com/go/ljM1005_software)

## In-box software CD

The software CD for the HP LaserJet M1005 MFP contains a variety of files for installing the software on the computer.

The HP LaserJet M1005 MFP software CD is divided into two partitions, one for each of the following operating systems:

- MS Windows
- Macintosh

The files in each partition include documentation files and files that are required in order to install and uninstall the software components.

Topics:

- [Windows partition](#)
- [CD versions](#)

## Windows partition

The root directory in the MS Windows partition of the software CD contains the HPSETUP.EXE file, the SETUP.EXE file, and the following directories and support files:

- Bahasa
- Czech

- Dansk
- Deutsch
- English
- Espanol
- Francais
- images
- Italiano
- Korean
- LangFis
- Magyar
- Nederlands
- Norsk
- OrderReminder
- Polski
- Portuguese
- Russian
- SChinese
- Screen Fonts
- Suomi
- Svenska
- TChinese
- Thai
- Turkce

The software files and help documentation for each language reside in the following subdirectories:

- Driver
- Manuals

To view the files, insert the HP LaserJet M1005 MFP software CD into the CD-ROM drive, right-click **Start**, click **Explore**, and then select the CD-ROM drive.

## CD versions

The HP LaserJet M1005 MFP software CD is available in a single version (Part No. CB376A-60121) that contains software in these languages:

- BA = Indonesian (Bahasa)
- CS = Czech (Cesky)
- DA = Danish (Dansk)
- DE = German (Deutsch)
- EN = English
- ES = Spanish (Español)
- FI = Finnish (Suomi)
- FR = French (Français)
- HU = Hungarian (Magyar)
- IT = Italian (Italiano)
- KO = Korean
- NL = Dutch (Nederland)
- NO = Norwegian (Norsk)
- PL = Polish (Polski)
- PT = Brazilian Portuguese (Português)
- RU = Russian (Russ)
- SV = Swedish (Svenska)
- TH = Thai
- TR = Turkish (Türkçe)
- ZHCN = Simplified Chinese
- ZHTW = Traditional Chinese

The following tables list the software components that are supported in each language.

**Table 1-3** BA - KO

Component	BA	CS	DA	DE	EN	ES	FI	FR	HU	IT	KO
HP LaserJet M1005 MFP host-based driver		x	x	x	x	x	x	x	x	x	x
Common MS Windows Installer		x	x	x	x	x	x	x	x	x	x
Add Printer Wizard Installer		x	x	x	x	x	x	x	x	x	x
CD Browser		x	x	x	x	x	x	x	x	x	x

**Table 1-3** BA - KO (continued)

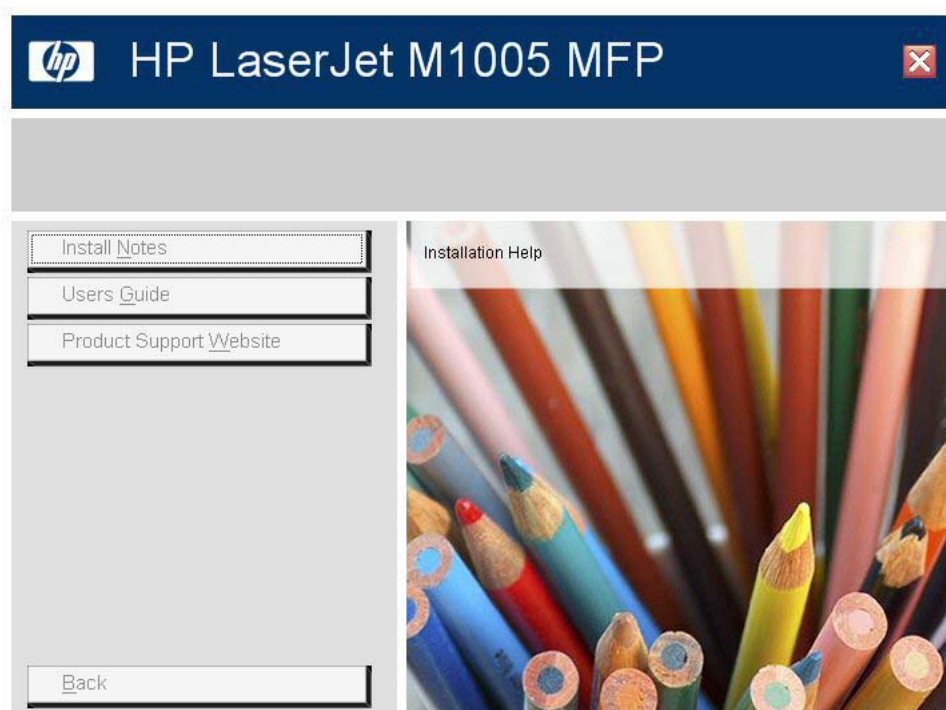
Component	BA	CS	DA	DE	EN	ES	FI	FR	HU	IT	KO
HP LaserJet Scan		x	x	x	x	x	x	x	x	x	x
Fonts		x	x	x	x	x	x	x	x	x	x
HP Web Registration		x	x	x	x	x	x	x	x	x	x
HP LaserJet M1005 MFP User Guide (.PDF file)	x	x	x	x	x	x	x	x	x	x	x
HP LaserJet M1005 MFP User Guide (.CHM file)	x	x	x	x	x	x	x	x	x	x	x
Hewlett-Packard LaserJet M1005 MFP Install Notes		x	x	x	x	x	x	x	x	x	x

**Table 1-4** NL - ZHTW

Component	NL	NO	PL	PT	RU	SV	TH	TR	ZHCN	ZHTW
HP LaserJet M1005 MFP host-based driver	x	x	x	x	x	x	x	x	x	x
Common MS Windows Installer	x	x	x	x	x	x	x	x	x	x
Add Printer Wizard Installer	x	x	x	x	x	x	x	x	x	x
CD Browser	x	x	x	x	x	x	x	x	x	x
HP LaserJet Scan	x	x	x	x	x	x	x	x	x	x
Fonts	x	x	x	x	x	x	x	x	x	x
HP Web Registration	x	x	x	x	x	x	x	x	x	x
HP LaserJet M1005 MFP User Guide (.PDF file)	x	x	x	x	x	x	x	x	x	x
HP LaserJet M1005 MFP User Guide (.CHM file)	x	x	x	x	x	x	x	x	x	x
Hewlett-Packard LaserJet M1005 MFP Install Notes	x	x	x	x	x	x	x	x	x	x

## HP LaserJet documentation

On the main screen of the printing-system software CD browser, click **Help** to open the HP LaserJet M1005 MFP documentation and support screen.



**Figure 1-1** Installation software CD documentation and support screen

The following table lists HP LaserJet M1005 MFP documents that are available for each operating system.

**Table 1-5** Documentation availability

Document	Windows 2000/XP/ Server 2003	Macintosh
<i>Hewlett-Packard LaserJet M1005 MFP Install Notes</i>	x	x
<i>HP LaserJet M1005 MFP User Guide</i> (.PDF file)	x	x
<i>HP LaserJet M1005 MFP User Guide</i> (.CHM file)	x	

Access to HP LaserJet documents depends on the type of document and its location:

- Some documents can be opened from the CD Browser.
- Some documents appear on the software CD and can be opened by navigating to the folder where they reside.
- Some documents are available on the Web through links in the CD Browser or CD folders.

Documents are available in the following file formats:

- **Portable Document Format (.PDF).** The HP LaserJet M1005 MFP software CD includes Adobe® Acrobat® Reader for viewing online documentation.
- **Compiled HTML (.CHM).** When you click a documentation link to a .CHM document, a Microsoft HTML Viewer opens the file on the computer screen.
- **Hypertext Markup (.HTM).** When you click a documentation link to an .HTM document, a Web browser opens the file on the computer screen.

The following documents are available:

- [HP LaserJet M1005 MFP User Guide](#)
- [Hewlett-Packard LaserJet M1005 MFP Install Notes](#)

## HP LaserJet M1005 MFP User Guide

The *HP LaserJet M1005 MFP User Guide* describes the basic device features.

To view this guide from the software CD, follow these steps:

1. In the main screen of the CD browser, click **Help**.
2. Click **Users Guide**.

The guide opens as an MS Windows Help file (.CHM file). This readable, onscreen version of the guide is provided in accordance with the Americans with Disabilities Act (ADA).

You can also gain access to the file by following these steps:

1. Insert the software CD into the CD-ROM drive.
2. Navigate to the <language>\Manuals folder.
3. Open HP1005UG.CHM.

The *HP LaserJet M1005 MFP User Guide* is provided as a printable .PDF file. To print the guide, follow these steps:

1. Insert the software CD into the CD-ROM drive.
2. Navigate to the <language>\Manuals folder.
3. Open HP1005UG.PDF.

When the file is open, click **File** and then click **Save As** to save a copy of the file to another location.

## Hewlett-Packard LaserJet M1005 MFP Install Notes

The *Hewlett-Packard LaserJet M1005 MFP Install Notes* (in .HTM format) contains important information about device features, instructions for installing the printing-system software, and technical assistance.

To view this guide from the software CD, follow these steps:

1. In the main screen of the CD browser, click **Help**.
2. Click **Install Notes**.

You can also gain access to the file by following these steps:

1. Insert the software CD into the CD-ROM drive.
2. Navigate to the <language>\Manuals folder.
3. Open LJM1005\_INSTALLNOTES.HTM.





## 2 Software description

### Introduction

The HP LaserJet M1005 MFP comes with software and installers for MS Windows and Apple Computer, Inc., Macintosh systems. For information about specific system installers, drivers, and components, see the section that corresponds to that operating system.



**NOTE** The HP Toolbox is *not* available on the HP LaserJet M1005 MFP.

Topics:

- [MS Windows software](#)
- [HP Extended Capabilities](#)
- [HP Status Application](#)
- [Scanning system](#)
- [Supported third-party software](#)

# MS Windows software

Topics:

- [Software and installer](#)
- [HP LaserJet host-based print driver](#)

## Software and installer

Topics:

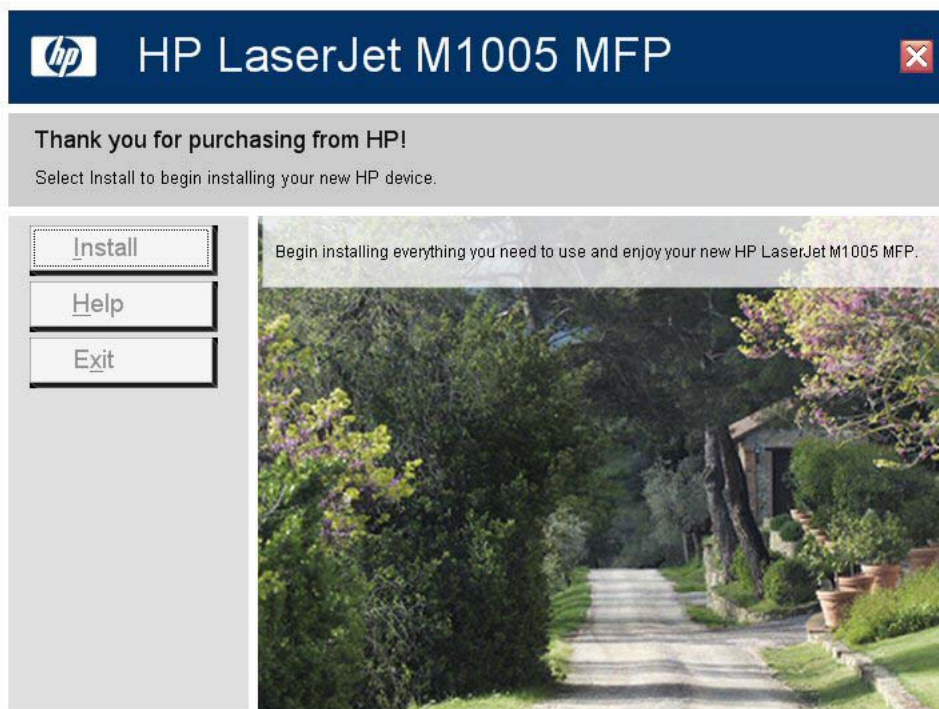
- [HP LaserJet M1005 MFP software CD for MS Windows systems](#)
- [Installer features](#)

## HP LaserJet M1005 MFP software CD for MS Windows systems

In the MS Windows 2000, Windows XP, and Windows Server 2003 operating systems, insert the HP LaserJet M1005 MFP software CD into the CD-ROM drive to open an interactive CD browser. Use the CD browser to install the print driver and related components, and to gain access to online user documentation, Adobe Acrobat Reader software, and optional HP software.

The following figure shows the main screen of the HP LaserJet M1005 MFP printing-system software CD. If the screen does not appear when you insert the software CD into the CD-ROM drive, follow these steps to open the CD browser:

1. Click **Start**.
2. Click **Run**.
3. Click **Browse...**, and navigate to the root directory of the software CD.
4. Double-click the HPSETUP.EXE file to start the installer.



**Figure 2-1** Installation software CD browser

The main screen of the software CD contains options in the left panel. Move the cursor over each option to see a description of the option.



**NOTE** The options on devices might differ from the illustration.

**Install.** The installation wizard guides the HP LaserJet M1005 MFP software installation.

**Help.** Use this option to view the HP LaserJet M1005 MFP user documentation and support. The following options are available:

- **Install Notes**
- **Users Guide**
- **Product Support Website**



**NOTE** If Adobe Acrobat Reader is not installed, click any of the links to a portable document format (.PDF) document to open it in a version of Adobe Acrobat Reader that runs from the HP LaserJet M1005 MFP software CD. The CD browser version of Acrobat Reader is in English only, but can be used to open localized versions of .PDF documents. The Adobe Acrobat Reader software is *not* installed on the computer and can only run while the printing-system software CD is in the CD-ROM drive. Adobe Acrobat Reader is also available at the following Web site:

[www.adobe.com](http://www.adobe.com)

## Installer features

The common installer is designed to provide a simple and consistent installation method for the device. The common installer is available for the Windows 2000, Windows XP, and Windows Server 2003 operating systems and features an interactive software interface.

The HP LaserJet M1005 MFP software CD also includes the following features:

- The HP LaserJet Uninstaller Utility
- HP Extended Capabilities
- HP Status Application
- The HP LaserJet Scan software

All of the MS Windows system components are installed by using the HP LaserJet M1005 MFP common installer. The installer automatically detects the language of choice and the operating system.

## HP LaserJet host-based print driver

HP LaserJet M1005 MFP host-based print driver provides access to the printing features, such as paper-handling and print-quality features, and communication between the computer and the device. The printing system includes software for end users and network administrators who are working in the following operating systems:

- Windows 2000, Windows XP (32-bit), and Windows Server 2003 (32-bit)
- Apple Mac OS X V10.3 and later



**NOTE** For the latest information about the software components, see the readme files on the CD. For additional information about installing the software, see the Hewlett-Packard LaserJet M1005 MFP Install Notes on the software CD.

## Print-driver version numbers for MS Windows operating systems

Access to print-driver version numbers varies, depending on the operating system in which the HP LaserJet M1005 MFP is installed.



**NOTE** For a list of HP LaserJet M1005 MFP print drivers, updated HP software, and device-support information, go to the following Web site:

[www.hp.com/go/ljM1005\\_software](http://www.hp.com/go/ljM1005_software)

The Windows 2000, Windows XP, and Windows Server 2003 operating systems support the HP host-based driver. When using an HP host-based driver in a Windows 2000, Windows XP, or Windows Server 2003 operating system, follow these steps to find driver-version information:

1. Click **Start**.
2. Select **Settings**.
3. Click **Printers and Faxes** (in Windows XP and Windows Server 2003) or **Printers** (in Windows 2000).
4. Right-click the device icon.
5. Click **Properties**.
6. Click the **About** tab.

## HP Extended Capabilities

When installing the device, you have the option of participating in HP's voluntary program for communication between your system and HP. This feature, available through software that is included on the software CD, helps HP monitor toner usage.

If you select the option to participate, you receive an invitation about two weeks after installation. It contains full disclosure of the information to be communicated. Participation is entirely voluntary, and the impact on processing and connecting speed is negligible. Personal information is never sent to HP without permission. TCP/IP addresses are used only to enable the connection and for security purposes.



**Figure 2-2** Welcome to the HP Product Survey Program screen

If you decline the invitation, the dialog box does not appear again and no data is gathered.

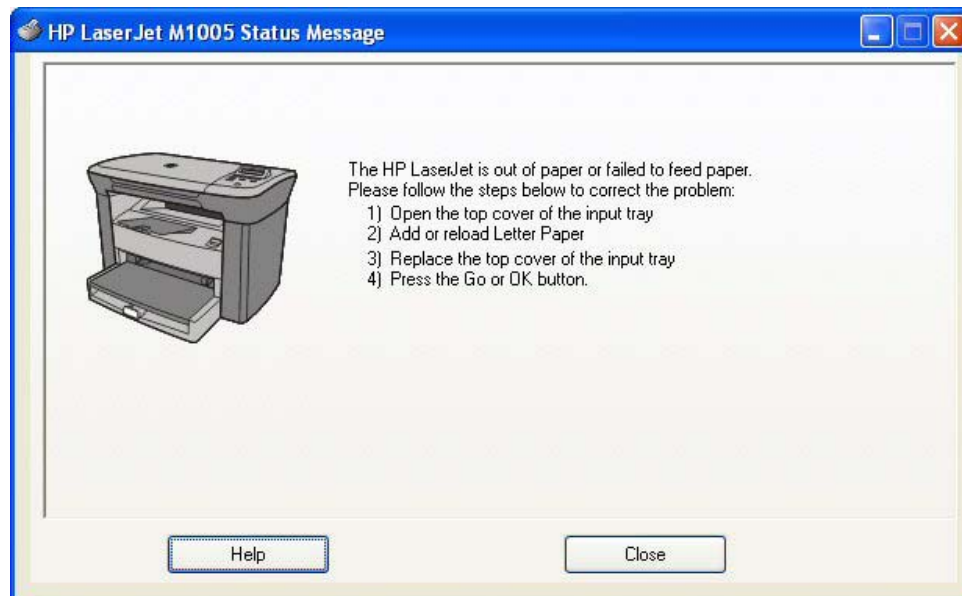
# HP Status Application

Status will be reported in two ways:

- In the standard Windows spooler
- By using the HP Status Application, which provides a more user-friendly method of viewing the status of the device and the print job

The HP Status Application relays device status through the input/output (I/O) communication interface.

The HP Status Application will provide pop-up error status messages from the time the printer driver is sending data to the device until the device has completed processing the print data. This includes printing all of the pages and the device going back to a ready state.



**Figure 2-3** Sample pop-up error status message

# Scanning system

Topics:

- [Scanning methods](#)
- [HP LaserJet Scan software](#)
- [Scan drivers](#)

## Scanning methods

Scan from the HP LaserJet device by using any of the following methods.

- **From a computer.** Click **Start**, select **Programs**, select **HP**, select the name of the device, and then click **Scan To**.
- **From a TWAIN- or WIA-compliant software program.** Check the Help system in the software program to learn how to scan from a TWAIN- or WIA-compliant scanner from within that program.
- **From the Camera and Scanner Wizard on Windows XP.** In Windows XP, click **Start**, click **Control Panel**, double-click **Scanners and Cameras**, and then double-click the HP LaserJet device scanner icon. The **Camera and Scanner Wizard** appears. Follow the onscreen directions to save your scanned item to a file.

## HP LaserJet Scan software

Use the HP LaserJet Scan software to scan from the HP LaserJet device or to read from a file, and then complete any of the following tasks with the data:

- Save the scanned item to a file.
- Attach the scanned item to an e-mail.
- Open the scanned item with any third-party software program that supports the drag-and-drop function.
- Perform text recognition on the scanned item through Readiris (if Readiris text-recognition software is installed on the computer).

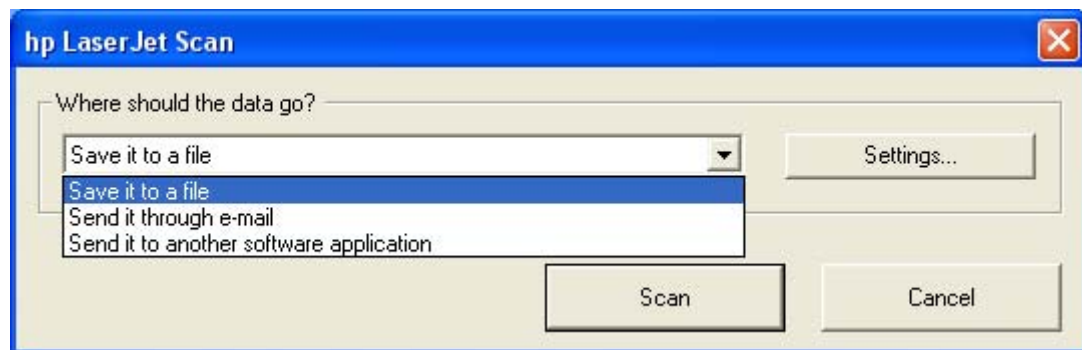
The HP LaserJet Scan software is set up to scan by default , but the **General** tab does provide an override to save a scanned item to a file. This is helpful both for testing when a scanner is not available and for converting existing files into some other output file type. The following file types are currently supported:

- .BMP
- .GIF
- .JPG
- .PDF
- .TIFF (both regular and compressed)

Readiris supports the following output file types:

- .BMP
- .DCA
- .DOC
- .DW
- .HTM
- .MM
- .PDF
- .RTF
- .TXT
- .WP
- .WPS
- .WS
- .WS2

The HP LaserJet Scan software is composed of a simple user interface that provides a **Where should the data go?** drop-down menu, a **Scan** button, a **Cancel** button, and a **Settings...** button.



**Figure 2-4** hp LaserJet Scan dialog box

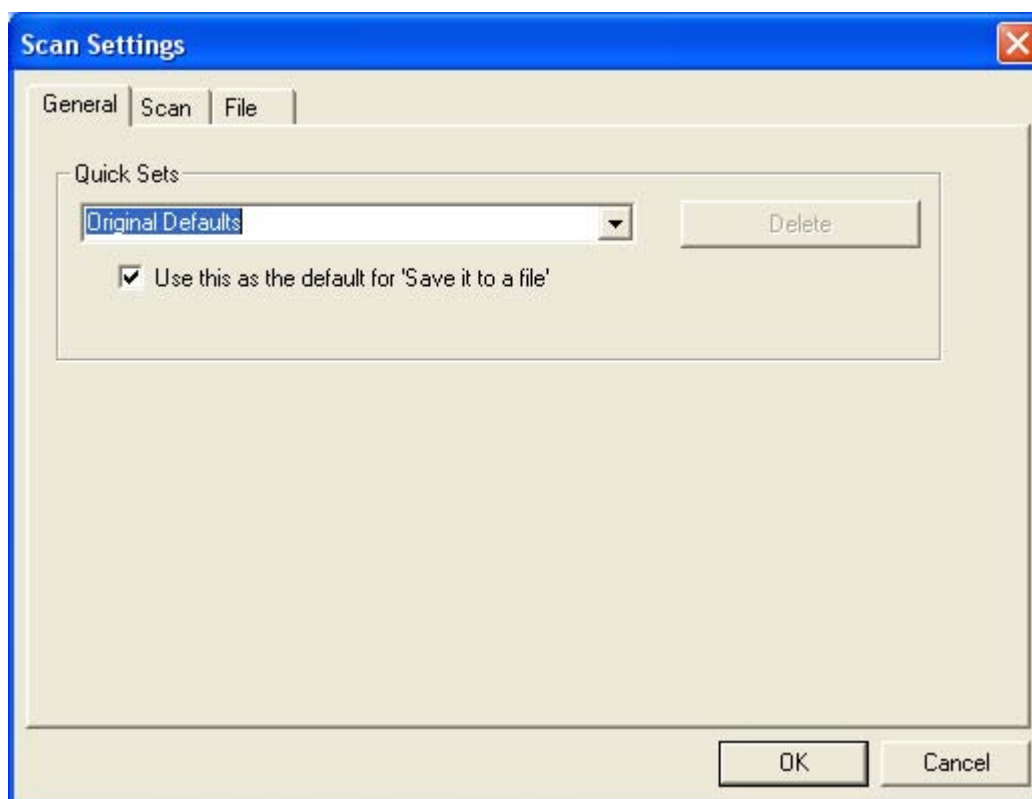
The **Where should the data go?** drop-down menu contains any user-defined **Quick Sets** and the following default destinations:

- **Save it to a file**
- **Send it through e-mail**
- **Send it to another software program**
- **Send it to the Readiris OCR software** (if Readiris software is installed)

Click **Settings...** to open a more detailed property dialog box called the **Scan Settings** dialog box, which contains options to change the scan settings. The tabs that are available in the **Scan Settings** dialog box depend on the destination that you select on the **Where should the data go?** drop-down menu.



For example, the **E-mail** tab appears only if the selected destination is **Send it through e-mail**. **Quick Sets** are also available to store settings that are used on a regular basis.



**Figure 2-5** Scan Settings dialog box

If you do not change any settings in the **Scan Settings** dialog box, the HP LaserJet Scan software prompts for any needed information, such as a file name if sending the scanned item to a file folder or an e-mail address if sending the scanned item in e-mail. If you specify an e-mail address in the **Scan Settings** dialog box before scanning the item, the e-mail is sent automatically without the new-message dialog box opening.

Because the **Scan Settings** dialog box contains only a limited set of variable, more functionality is available when using command-line arguments.

Every time the HP LaserJet Scan software is used, an HPPSCAN2.LOG file is generated within the current user's temporary directory. The HPPSCAN2.LOG file develops a log of operations and aids in troubleshooting problems.

Scanning to a file sends the scanned image to a MY SCANS directory in the MY DOCUMENTS folder.



**CAUTION** If you move the My Documents folder, the My Scans folder does not follow to the new location. It remains hard-coded to the current-user's home, and scan jobs continue to be stored there.

Selecting the third-party destination option saves the scanned image to a file of the specified file type. The HP LaserJet Scan software then starts the specified software program by appending the filename to the software filename. Because the HP LaserJet Scan software does not support automatic discovery of software programs, specify the correct software program and specify a file type that the program supports. The HP LaserJet Scan software opens when the filename is passed as a command-line argument.

## E-mail

The HP LaserJet software for Windows supports only 32-bit messaging application programming interface-(MAPI-) compliant e-mail programs, and does *not* support Internet-based e-mail programs such as Hotmail or Yahoo. The following table lists some examples of supported e-mail programs.

**Table 2-1** Supported e-mail programs

Program Name	Windows OS	Macintosh OS
Microsoft Entourage		Mac OS X
Microsoft Outlook	Yes; Outlook 97, Outlook 98, Outlook 2000, Outlook XP	Mac OS X
Microsoft Outlook Express	Yes	
Lotus Notes	Yes; V3.0 and later	

E-mail is always sent through the default e-mail client. To identify the default e-mail client in Windows XP (the path varies for other Windows operating system), click **Start**, click **Settings**, click **Control Panel**, click **Network and Internet Options**, click **Internet Options**, click the **Programs** tab, and look at the **E-mail** setting.

Sending a scan to e-mail generally uses the simple MAPI protocol. If the e-mail address is added before scanning, extended MAPI can be used to avoid security messages while the program tries to send the e-mail automatically. Setting a MapiLevel registry key forces the scan program to always use either simple or extended MAPI. This might be required if scanning to e-mail fails even when the default e-mail client is set up correctly.

## Scan drivers

The HP LaserJet M1005 MFP software includes the following integrated scan drivers.

- TWAIN driver
- Windows Image Acquisition (WIA) driver

## TWAIN DRIVER

The HP LaserJet M1005 MFP software includes a TWAIN driver user interface that provides great flexibility and a wide range of image-quality options. TWAIN is an industry standard scanning protocol. Initiate scans from the HP LaserJet device by using any TWAIN-compliant program.

## TWAIN compatibility

TWAIN-compliant programs acquire documents directly from the HP LaserJet device. Programs that follow the TWAIN standards should work.



**NOTE** HP LaserJet devices support the required core functions for TWAIN compliance, but have only limited support for extended TWAIN options.

## TWAIN scanning does not work with some programs

For programs that are not TWAIN-compliant, use the following process as a workaround.

1. Use the HP LaserJet Scan software to scan the document, in .TIFF format (or any other file type that the software supports), into a folder.
2. Import the .TIFF file into the program.

## Additional information about TWAIN

For more information about TWAIN, visit the following Web site:

[www.twain.org](http://www.twain.org)

## TWAIN driver user interface (MS Windows)

To scan a page:

1. Place the page to be scanned on the flatbed scanner.
2. Click **Start**, select **Programs** or **All Programs**, and then select **HP**.
3. Select **HP LaserJet M1005 MFP** and click **Scan To**.
4. In the **Where should the data go?** drop-down menu, select the desired destination for the scanned image, and then click **Scan**.

The HP LaserJet M1005 MFP scans a preview image of the page on the flatbed scanner and the TWAIN driver user interface appears with the preview scan image.

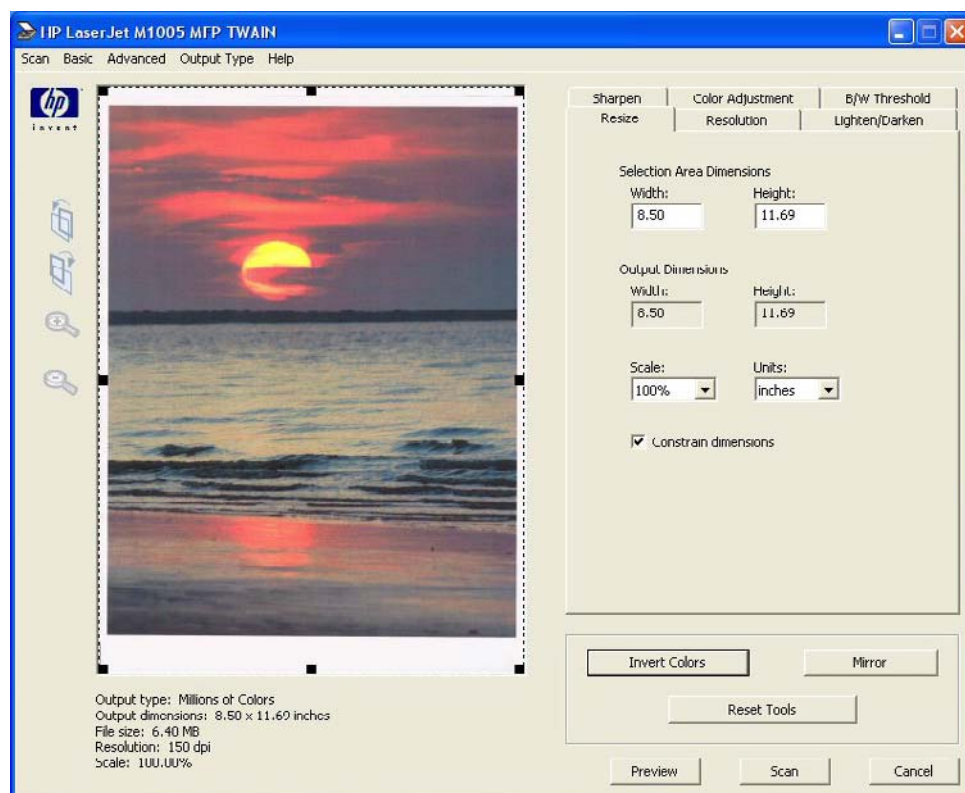


Figure 2-6 TWAIN driver user interface (MS Windows)

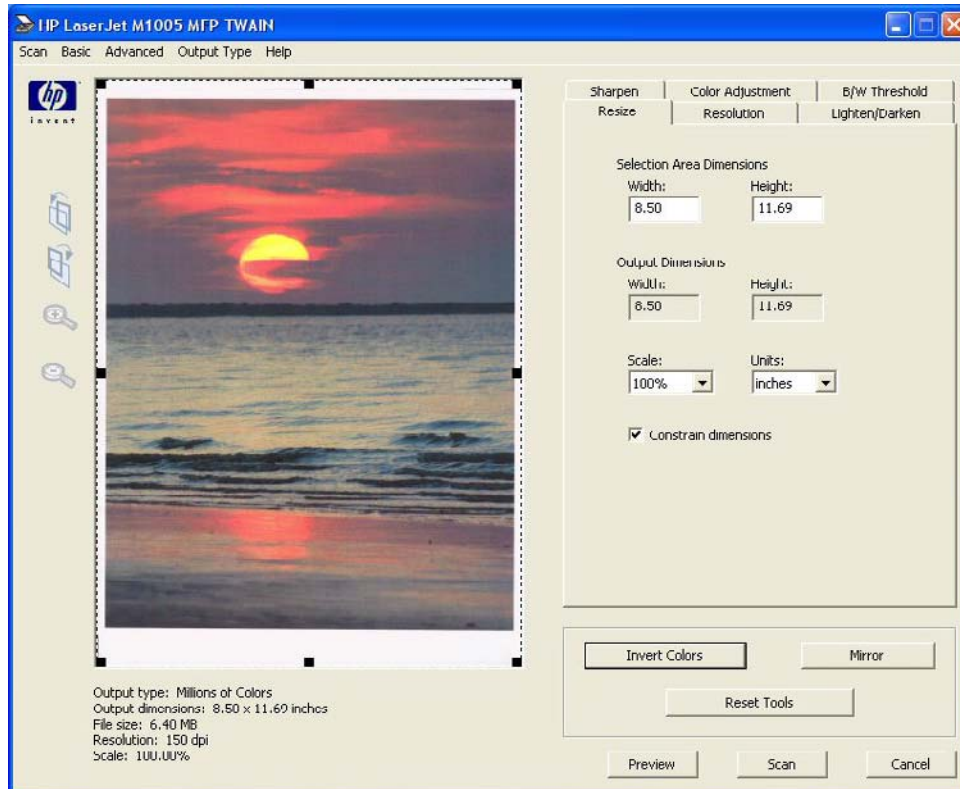
The TWAIN driver user interface contains the following drop-down menus, options, tabs, and buttons:



**NOTE** Many of the options in the drop-down menus control the same features that are available by using the TWAIN user interface tabs and buttons.

- **Scan.** This drop-down menu contains the following options:
  - **New Scan.** Use this option to rescan the image. Flatbed previews are always at 75 dpi and in color.
  - **Accept.** Use this option to rescan the image if the original is on a flatbed scanner and then send the image back to a program with the specified settings.
  - **Exit.** Use this option to exit the HP LaserJet Scan software.
- **Basic.** This drop-down menu contains the following options:
  - **Rotate.** Use this option to rotate the scanned image 90° to the left or 90° to the right.
  - **Zoom.** Use this option to zoom in or out on the selected area of the scan. This automatically starts a rescan if one is needed to obtain a clear image.
  - **Resize.** Use this option to change the selection area for final scan. The final scan is performed within this selection area.
  - **Lighten / Darken.** Use this option to lighten or darken the scanned image.
  - **Reset Tools.** Use this option to reset all the controls to their default values.
- **Advanced.** This drop-down menu contains the following options:
  - **Resolution.** Use this option to designate the final resolution for the image. The software interpolates resolutions that are above 1200 dpi.
  - **B/W Threshold.** Use this option to adjust the black and white threshold, and to specify which color channel is used for the scan.
  - **Mirror.** Use this option to flip the scanned image horizontally.
  - **Invert Colors.** Use this option to invert the colors in the scanned image.
  - **Color Adjustment.** Use option tab to adjust the color on the scanned image.
- **Output Type.** This drop-down menu contains the following options:
  - **Millions of Colors** (default).
  - **256 Colors (8 bit).**
  - **256 Colors (web palette).**
  - **256 Colors (system palette).**
  - **256 Gray Shades.**
  - **Black White (1 bit).**

- **Help.** This drop-down menu contains links to the following help documents:
  - **User's Manual.**
  - **HP Photo Imaging Help.**
  - **About HP Scanning.**
- **Resize.** Use this tab to control the selection area for the final scan. The final scan is performed within this selection area.

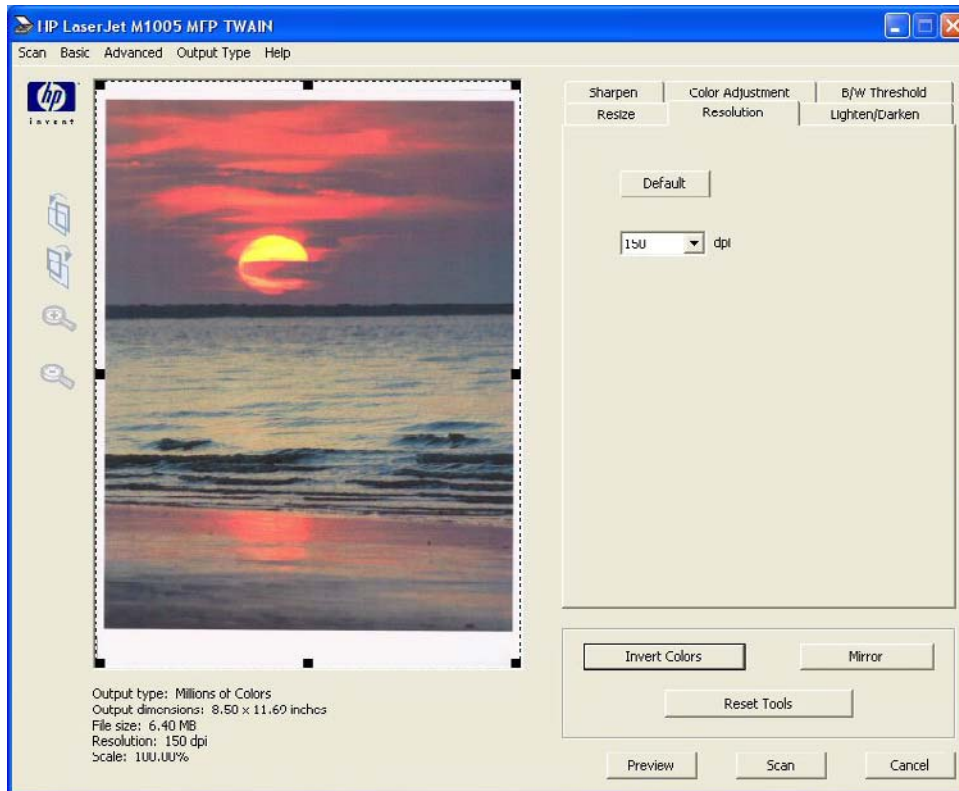


**Figure 2-7** TWAIN driver user interface – **Resize**

- **Resolution.** Use this tab to designate the resolution for the final scan. The software interpolates resolutions that are above 1200 dpi.

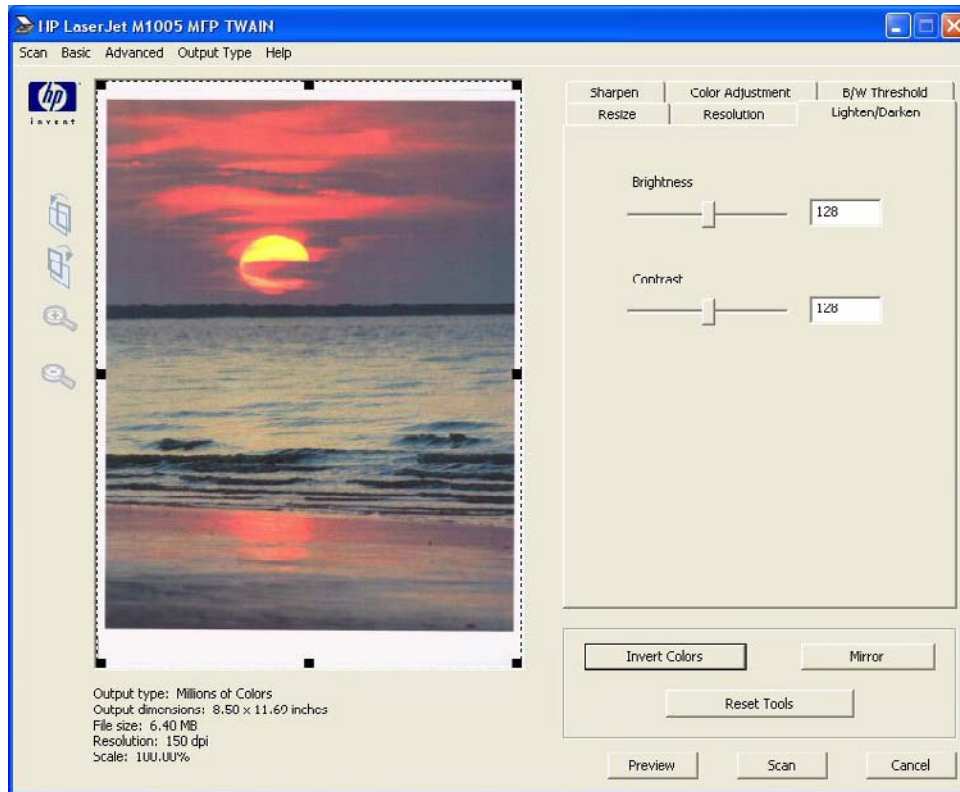


**NOTE** Scans that are above 1200 dpi can take a long time to complete and can consume large amounts of memory.



**Figure 2-8** TWAIN driver user interface – **Resolution**

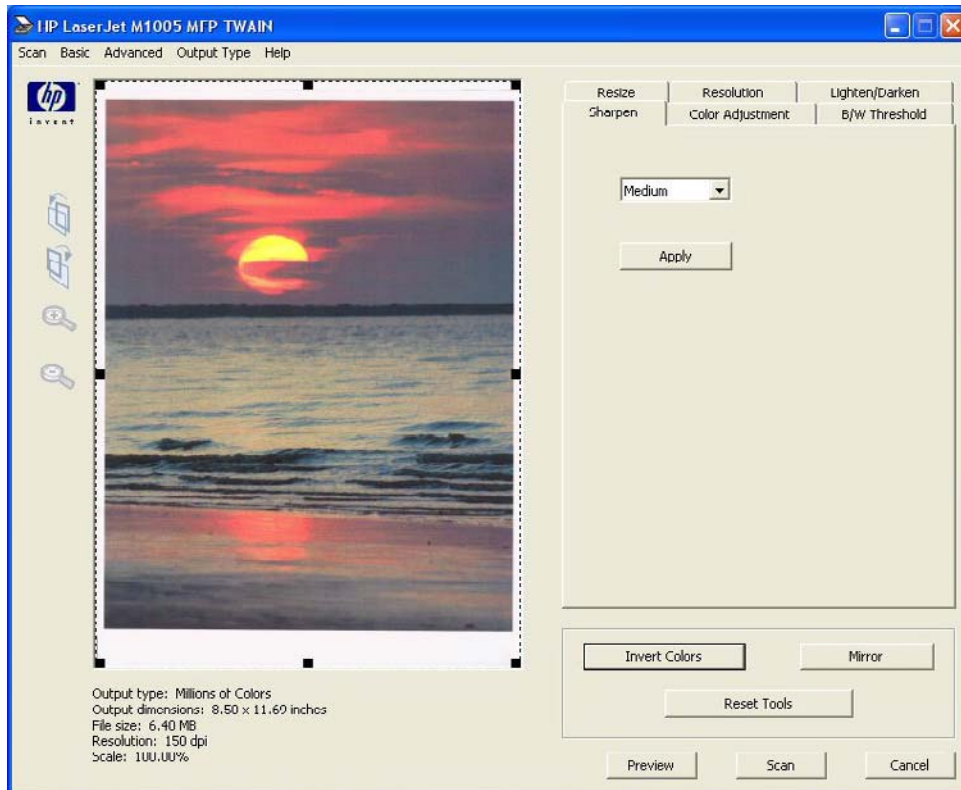
- **Lighten/Darken.** Use this tab to lighten or darken the final scan.



**Figure 2-9** TWAIN driver user interface – Lighten/Darken



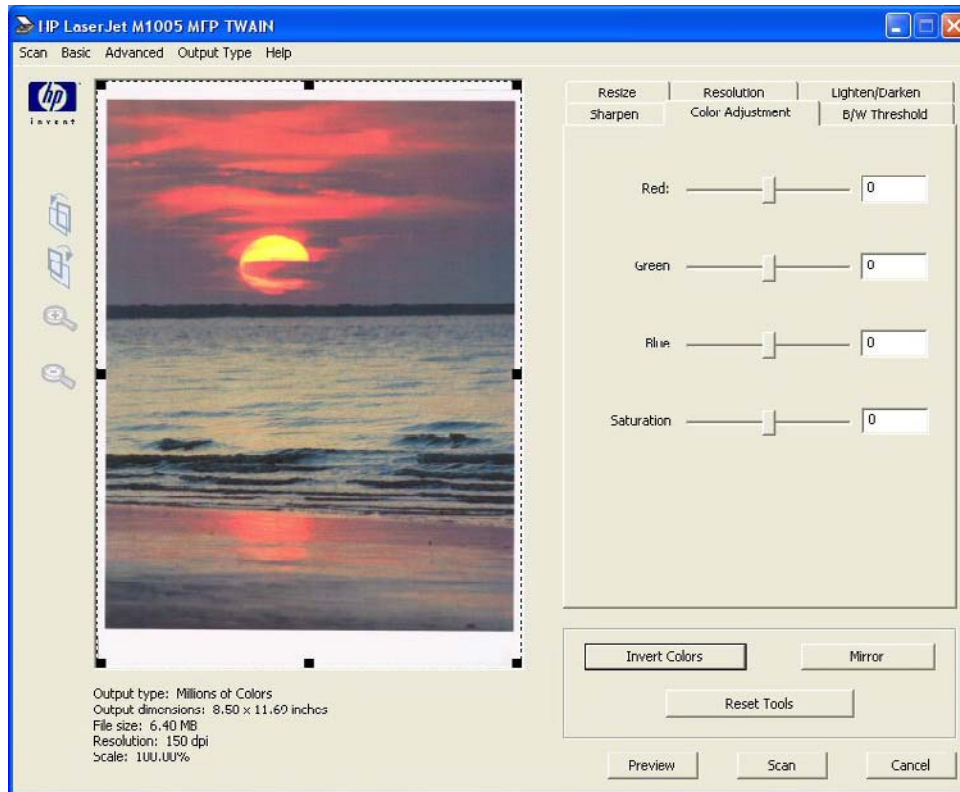
- **Sharpen.** Use this tab to control the sharpness of the final scan.



**Figure 2-10** TWAIN driver user interface – **Sharpen**



- **Color Adjustment.** Use this tab to adjust the color on the final scan.

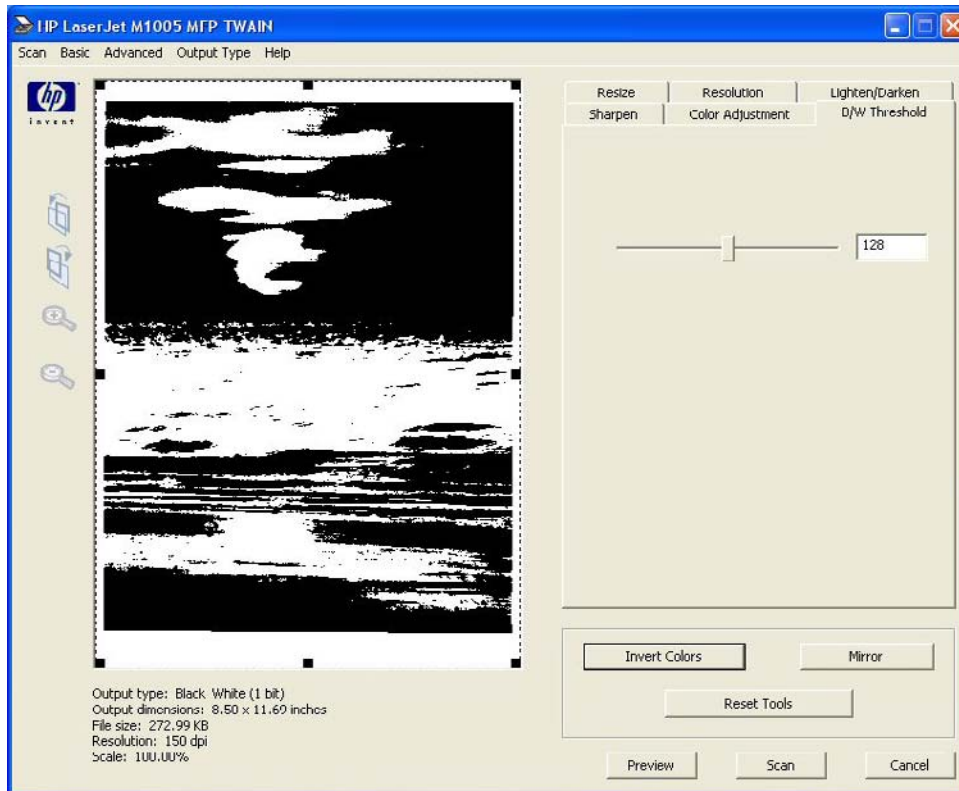


**Figure 2-11** TWAIN driver user interface – **Color Adjustment**

- **B/W Threshold.** Use this tab to adjust the black and white threshold, and to specify which color channel is used for the final scan.



**NOTE** Select **Black White (1 bit)** in the **Output Type** drop-down menu to enable the control on this tab.



**Figure 2-12** TWAIN driver user interface – B/W Threshold

- **Invert Colors.** Use this button to invert the colors in the scanned image.
- **Mirror.** Use this button to flip the scanned image horizontally.
- **Preview.** Use this button to rescan the preview image.
- **Scan.** Use this button to complete the final scan with the selected output settings.
- **Cancel.** Use this button to cancel the scan.

## WIA driver

Use any of the following methods to open the Windows Image Acquisition (WIA) scanning feature for Windows XP.

- Start WIA scanning through a WIA-compliant software program.
- Right-click on the scanner icon in the **My Computer** folder and click **Scan**.
- Right-click on the scanner icon in the **My Computer** folder and click **Scanner Wizard**.

- Right-click on the scanner icon in the **Scanners and Cameras** folder in the **Control Panel** and click **Scan**.
- Right-click on the scanner icon in the **Scanners and Cameras** folder in the **Control Panel** and click **Scanner Wizard**.

WIA has its own user interface. It is relatively simple and does not contain the wide range of image-quality options that are available in the TWAIN driver user interface.

When using the WIA scan driver, modify the brightness and contrast after the scan. Contrast or brightness modifications cannot be set on the device. Only native device resolutions are supported, and software interpolation is not performed. The WIA scan driver supports the following compression types:

- None
- .JPG
- .GIF
- .TIFF

# Supported third-party software

This section describes third-party software programs that the device supports.

## Text-recognition software

The device software has an integrated text-recognition feature. This feature is also known as optical character recognition, or OCR. Text-recognition is also available through the third-party software program Readiris, which is included on a separate CD that comes with the device.

### About text-recognition reliability

Text-recognition software turns an image into computer-editable text by analyzing the image and defining the characters. The accuracy obtained through text-recognition software depends on the quality, size, and structure of the original document, and on the quality of the scan itself. To obtain the best possible results when using text-recognition software, use the following guidelines:

- Scan directly from the text-recognition software.
- Process only pages that contain 9-point text or larger.
- Limit pages that contain underlining, forms, graphics, rotated text, photographs, and handwriting.
- Scan images squarely.
- Make sure that the pages are free of extraneous marks.
- Maximize the scanning resolution. Use a minimum of 300 dpi.
- Process only pages that have crisp, clear text. Letters that have gaps, that "bleed" along their edges, or that touch other letters do not work well. Text that is aligned closely to nontext items, such as graphics, might also degrade text-recognition results.
- Fine-tune the amount of black and white on scanned images. See the user guide for information.
- Avoid scanning from thin media that has information printed on the back side. The information on the back can bleed through.

Even when following these recommendations, less-than-perfect image results can occur. This is because text-recognition technology is evolving and is still less than perfect.

## Readiris text-recognition software

The Readiris text-recognition software converts scanned images into text that can be edited in word-processing programs.



**NOTE** The Readiris CD is not set up at fulfillment. The CD is available from Global Support Organization (GSO) or HP Parts in accordance with contractual and licensing agreements.

The Readiris user interface is available in the following languages:

- Dutch
- English
- French

- German
- Italian
- Korean
- Portuguese-Brazilian
- Simplified Chinese
- Spanish



**NOTE** Readiris can perform text recognition (also known as optical character recognition, or OCR) in 124 languages.

Readiris Professional (V11.0 for Windows, V11.5 for Macintosh) supports text recognition in 2-byte Asian characters. Set the operating system to display 2-byte characters in order to see the text.



**NOTE** For better text-recognition scanning results, start Readiris and scan directly into the program. Readiris (V11.0 for Windows, V11.5 for Macintosh) automatically starts a wizard to guide this process.

When Readiris is installed on the computer, it appears as an option in the destination dropdown box in the HP Scan software. Select Readiris as the destination to scan the image into .TIFF format. Readiris automatically starts the text-recognition process.

The Readiris software uses a separate installer that comes on a separate CD. The initial release of the HP LaserJet M1005 MFP includes Readiris Professional (V11.0 for Windows, V11.5 for Macintosh) software.



# 3 Install MS Windows software components



**NOTE** This chapter covers information about installing the HP LaserJet M1005 MFP software for MS Windows.

Topics:

- [Installation overview](#)
- [Installation options](#)
- [Installation dialog box options for MS Windows 2000, MS Windows XP, and MS Windows Server 2003](#)
- [Uninstall](#)

## Installation overview

The software for the HP LaserJet M1005 MFP comes on a single CD. On computers running MS Windows 2000, MS Windows XP, or MS Windows Server 2003, the HPSETUP.EXE file installs the HP LaserJet M1005 MFP software from the CD onto the hard disk and updates MS Windows files.

For all of the supported operating systems, the Installer guides the installation process as you provide information about the computer environment.



## Installation options

The HP LaserJet M1005 MFP software can be used with the HP LaserJet M1005 MFP in the following configurations:

- Install the HP LaserJet M1005 MFP software on a computer that is directly connected to the device through a USB port and is running MS Windows 2000, MS Windows XP, or MS Windows Server 2003.
- Install the HP LaserJet M1005 MFP software on a computer that is directly connected to the device through a USB port and is running MS Windows 2000, MS Windows XP, or MS Windows Server 2003. Then share the HP LaserJet M1005 MFP with other users on the network by using MS Windows sharing.



**NOTE** Scanning functions cannot be shared.

## MS Windows installation for direct connections

Use the following instructions to install the device software on a computer that is running MS Windows 2000, MS Windows XP, or MS Windows Server 2003.



**NOTE** Set up and turn on the HP LaserJet M1005 MFP before installing the software. Do *not* connect the HP LaserJet M1005 MFP to the computer until the prompt appears.

You must have administrator privileges to install the software on MS Windows 2000, MS Windows XP, or MS Windows Server 2003.

1. Quit all open programs.
2. Insert the HP LaserJet M1005 MFP software CD into the CD-ROM drive.



**NOTE** If the CD does not start automatically, click **Start**, click **Run**, and then browse to and double-click the HPSETUP.EXE file in the root directory of the CD.

3. Follow the onscreen prompts to install the software.
4. When the installation is nearly complete, the **Setup Complete!** dialog box appears. Click **Finish** to finish the installation and print a test page.
5. If prompted to restart the computer, click **Yes**.

## Set up MS Windows Sharing (peer-to-peer networking)

This section contains instructions for using MS Windows Sharing to make the device available to network users when the device is directly connected to a computer.



**NOTE** This STR outlines the procedures for sharing a device through MS Windows Sharing (peer-to-peer networking). If these procedures are not successful, contact Microsoft at the following Web site: <http://www.microsoft.com>. Because it is a function of Microsoft operating systems and not of the HP printer drivers, HP does not support peer-to-peer networking.

In Windows-sharing, the person who uses the computer that is directly connected to the device can allow other users on the network to print to the HP LaserJet M1005 MFP.

When the HP LaserJet M1005 MFP is shared, install the printer driver on all of the computers that can print to the HP LaserJet M1005 MFP.

## Set up the MS Windows 2000 host computer

At the computer that is directly connected to the HP LaserJet M1005 MFP, perform the following steps:

1. Click **Start**, click **Settings**, and then click **Printers**.
2. In the device list, right-click the icon for the HP LaserJet M1005 MFP, and then click **Sharing**.
3. On the **Sharing** tab, click the **Share As** option button, and then type a name for the HP LaserJet M1005 MFP in the **Share Name** field. Click **OK**.



**NOTE** The device **Share Name** is limited to 8 characters.

## Set up the MS Windows XP or MS Windows Server 2003 host computer

At the computer that is directly connected to the HP LaserJet M1005 MFP, perform the following steps:

1. Click **Start** and then click **Printers and Faxes**.
2. In the device list, right-click the icon for the HP LaserJet M1005 MFP and then click **Sharing**.
3. On the **Sharing** tab, click the **Share this printer** option button and type a name for the HP LaserJet M1005 MFP in the **Share Name** field. Click **OK**.



**NOTE** The device **Share Name** is limited to 8 characters.

4. Click the **Ports** tab. Click to clear the **Enable bidirectional support** check box, and then click **OK**.

## Set up the client computers

When the host computer is set up to share the HP LaserJet M1005 MFP, also configure the client computers. Perform the following steps at all the other network computers that will use the HP LaserJet M1005 MFP.

### Set up MS Windows 2000 client computers

1. Click **Start**, click **Settings**, and then click **Printers**.
2. Double-click the **Add Printer** icon to open the **Add Printer** wizard.
3. Click **Next** to start the wizard.
4. Click the **Network Printer** option button, and then click **Next**.
5. Type the path and share name of the HP LaserJet M1005 MFP to connect to or click **Browse** and navigate to it.
6. Click **Next**.
7. Click **Yes** or **No** when asked if you want to use this device as your default printer for MS Windows-based programs, and then click **Next**.
8. Click **Finish** to complete the installation and close the **Add Printer** wizard.



**NOTE** You might need the software CD to complete the print-driver installations.

### Set up MS Windows XP or MS Windows Server 2003 client computers

1. Click **Start** and then click **Printers and Faxes**.
2. In the column to the left, under **Printer Tasks**, click **Add a printer** to open the **Add Printer** wizard.
3. Click **Next** to start the wizard.
4. Click the **A network printer or a printer attached to another computer** option button, and then click **Next**.
5. Type the path and share name of the HP LaserJet M1005 MFP to connect to or click **Browse** and navigate to it.
6. Click **Next**.
7. Click **Yes** or **No** when asked if you want to use this device as your default printer for MS Windows-based programs, and then click **Next**.
8. Click **Finish** to complete the installation and close the **Add Printer** wizard.

# Installation dialog box options for MS Windows 2000, MS Windows XP, and MS Windows Server 2003

The following section shows the dialog box options that appear during the HP LaserJet M1005 MFP software installation on MS Windows 2000, MS Windows XP, or MS Windows Server 2003 operating systems.

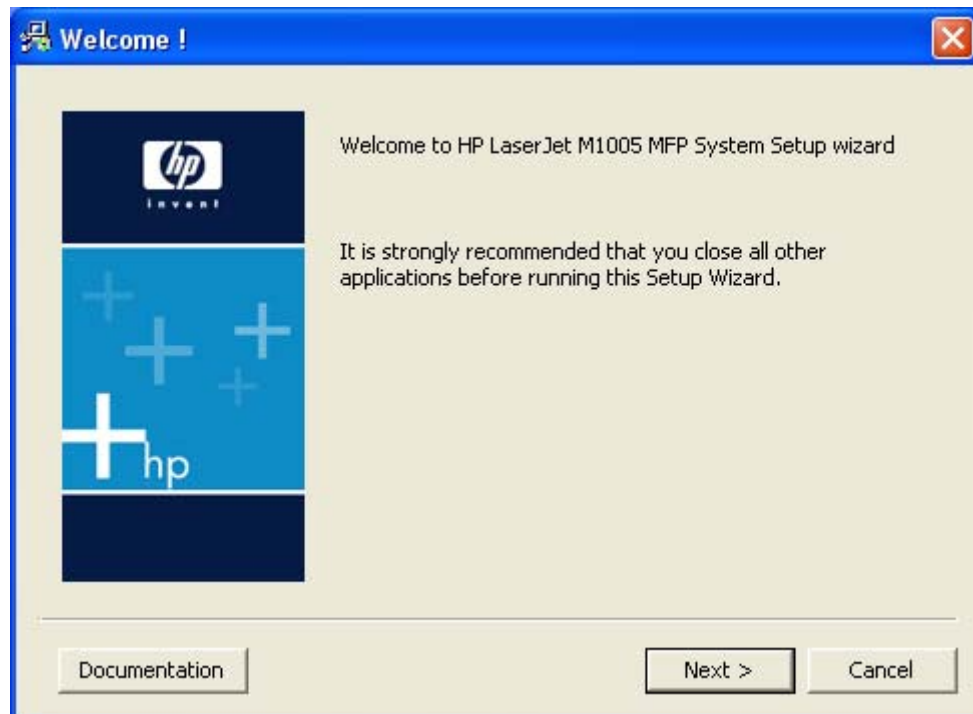


**NOTE** HP recommends that you install the software before connecting the HP LaserJet M1005 MFP to the computer (software-first installation). These instructions are for a software-first installation.

Use these instructions the first time that you install the HP LaserJet M1005 MFP software.

To begin the installation, insert the software CD into the CD-ROM drive and then click **Install** on the main screen of the CD Browser. If the screen does not appear when the software CD is inserted into the CD-ROM drive, follow these steps to open the CD Browser:

1. Click **Start**.
2. Click **Run**.
3. Click **Browse...** and then navigate to the root directory of the software CD.
4. Double-click the SETUP.EXE file to start the installer.
5. Click **Install** to begin the installation process.



**Figure 3-1** Step 1 - **Welcome** dialog box

Click **Documentation** to open a Web browser and the Hewlett-Packard LaserJet M1005 MFP Install Notes.

Click **Next** to go to the **License Agreement** dialog box (step 2).

Click **Cancel** to go to the **Exit Setup** dialog box (step 7).

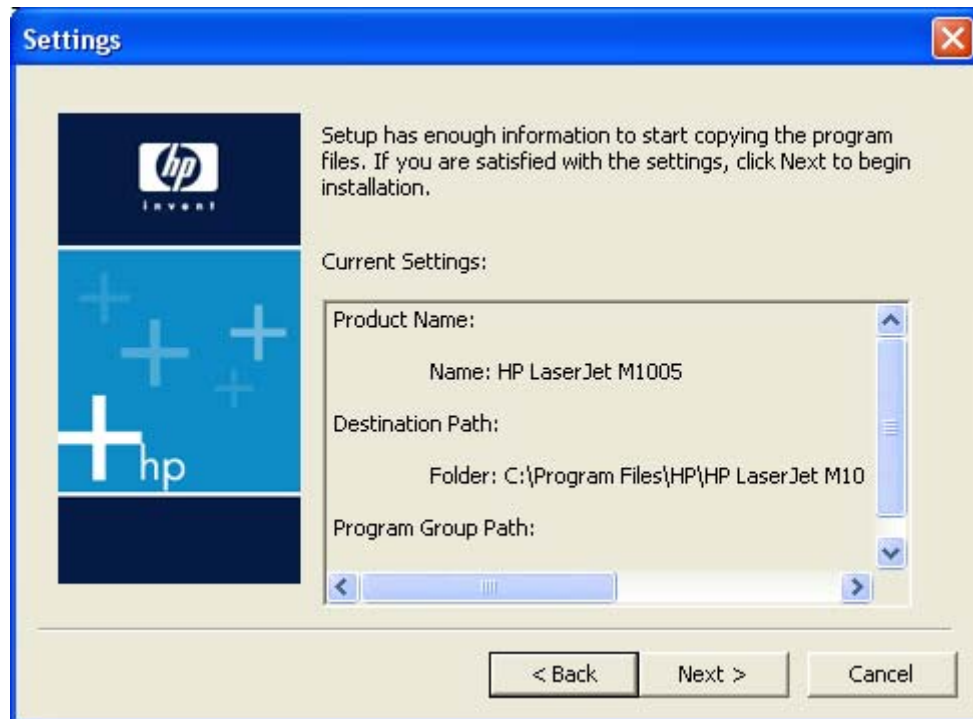


**Figure 3-2** Step 2 - HP Software License Agreement dialog box

Click **Back** to return to the **Welcome** dialog box (step 1).

Click **Yes** to go to the **Settings** dialog box (step 3).

Click **No** to go to the **Exit Setup** dialog box (step 7).

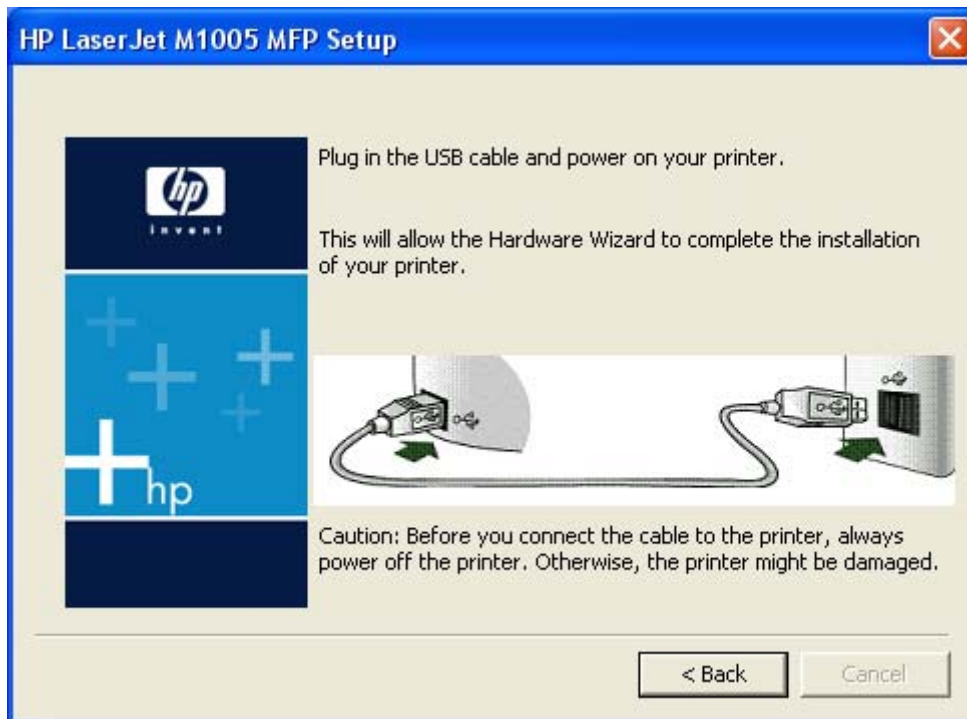


**Figure 3-3** Step 3 - **Settings** dialog box

Click **Back** to return to the **License Agreement** dialog box (step 2).

Click **Next** to start installing the software and go to the **HP LaserJet M1005 MFP Setup** dialog box (step 4). A progress bar reflects the status of the installation process.

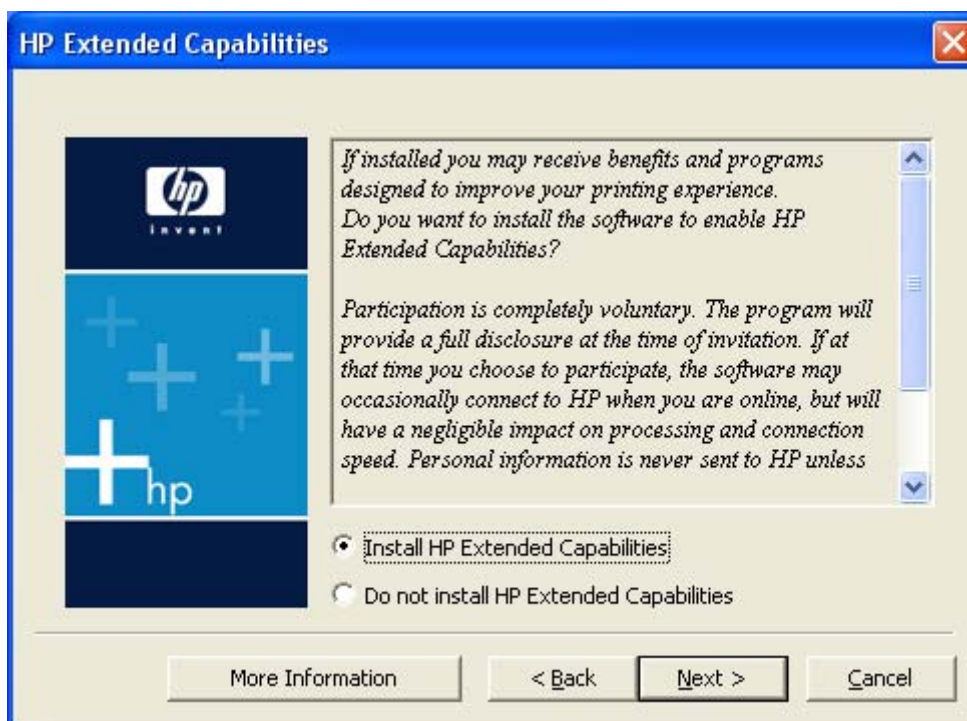
Click **Cancel** to go to the **Exit Setup** dialog box (step 7).



**Figure 3-4** Step 4 - HP LaserJet M1005 MFP Setup dialog box

Click **Back** to return to the **Settings** dialog box (step 3).

Connect the USB cable to the computer and the device, and then turn on the device to continue the installation.



**Figure 3-5** Step 5- HP Extended Capabilities dialog box



If you select the **Install HP Extended Capabilities** option, a dialog box appears two weeks after installing the device inviting participation in the HP Product Survey Program.

If you select the **Do not install HP Extended Capabilities** option, you are not invited to participate in the HP Product Survey Program.

Click **More Information** to find out more about HP Extended Capabilities and the HP Product Survey Program.

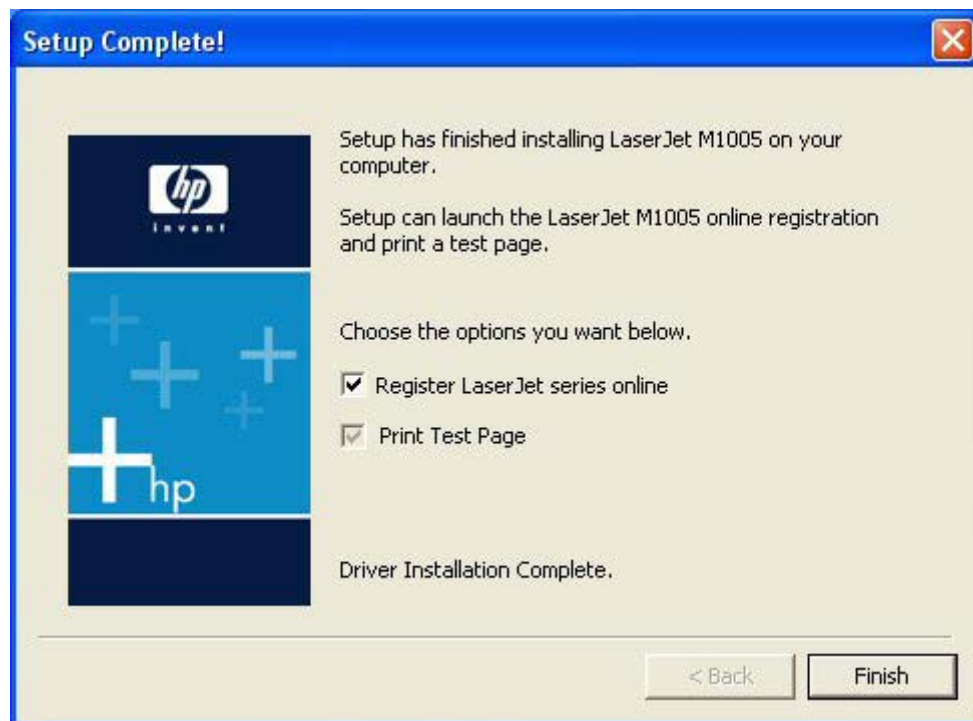
Click **Next** to go to the **Setup Complete** dialog box (step 6).



**NOTE** If required, the installer updates the device firmware. This might take several minutes.

Click **Back** to return to the **Settings** dialog box (step 3).

Click **Cancel** to go to the **Exit Setup** dialog box (step 7).



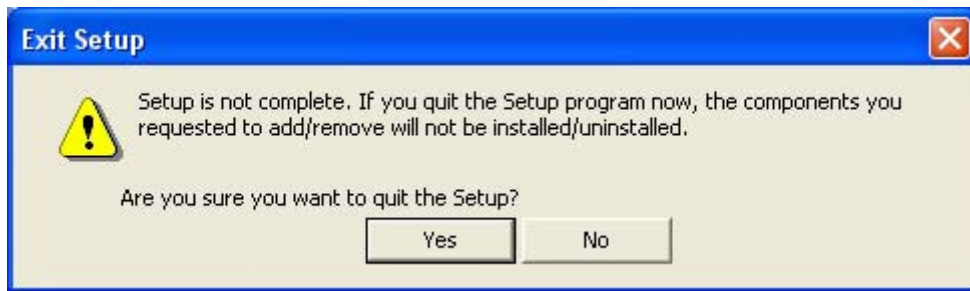
**Figure 3-6** Step 6 - **Setup Complete!** dialog box

The **Register LaserJet series online** check box and the **Print Test Page** check box are selected by default. The **Print Test Page** option is unavailable.

Click **Finish** with the **Register LaserJet series online** check box selected to open the Online Registration page in the Web browser.

Click **Finish** with the **Print Test Page** check box selected to send a test page to the device.

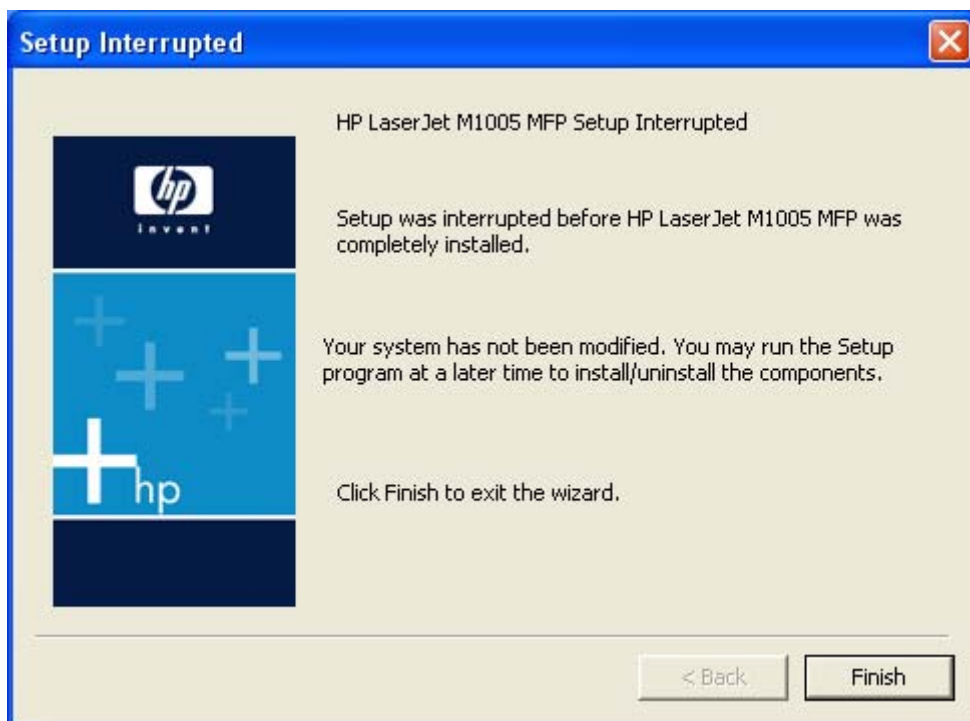




**Figure 3-7** Step 7 - **Exit Setup**

Click **Yes** to go to the **Setup Interrupted** dialog box (step 8).

Click **No** to return to the last installer dialog box that was open.



**Figure 3-8** Step 8 - **Setup Interrupted**

Click **Finish** to close the installer.

# Uninstall

Topics:

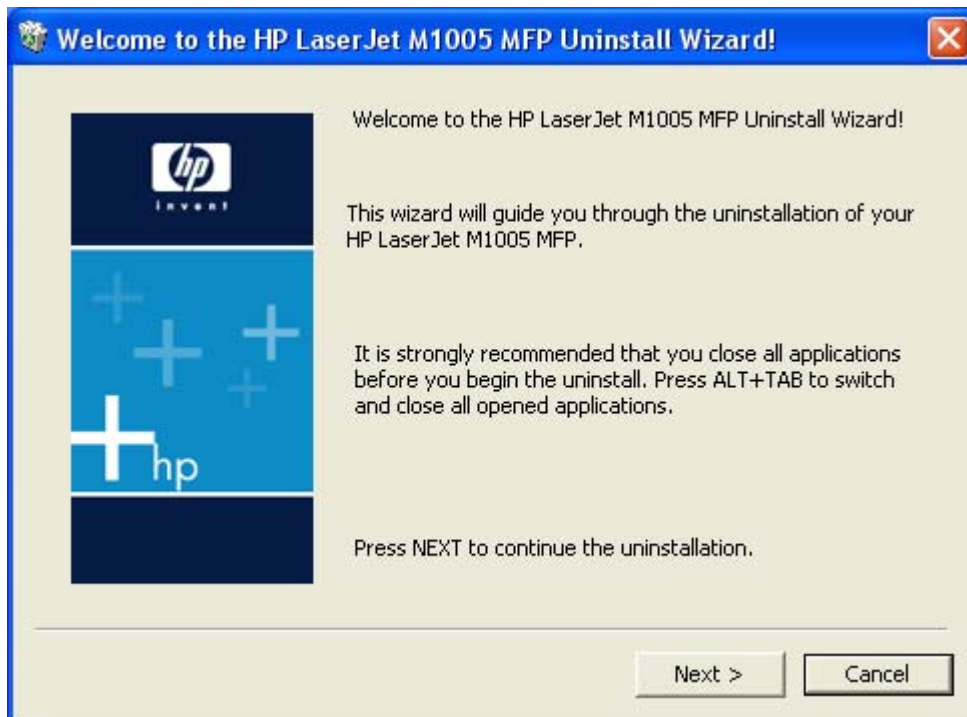
- [Uninstall instructions for MS Windows 2000, MS Windows XP, and MS Windows Server 2003](#)
- [Uninstall, add, or repair by using the installation CD](#)

## Uninstall instructions for MS Windows 2000, MS Windows XP, and MS Windows Server 2003



**NOTE** To uninstall the software from MS Windows 2000, MS Windows XP, or MS Windows Server 2003, log on with Administrator privileges.

1. Quit all open programs.
2. Click **Start**, select **Programs** (or **All Programs** in MS Windows XP or MS Windows Server 2003), select **HP**, select **HP LaserJet M1005 MFP**, and then click **Uninstall HP LaserJet M1005 MFP**.
3. The **HP LaserJet M1005 MFP Uninstall Wizard** appears. Click **Next** to continue.



**Figure 3-9** The HP LaserJet M1005 MFP Uninstall Wizard

4. The **HP LaserJet M1005 MFP Driver Uninstall information** dialog box appears. Click **Next** to begin the uninstall process.



**Figure 3-10** HP LaserJet M1005 MFP Driver Uninstall information dialog box



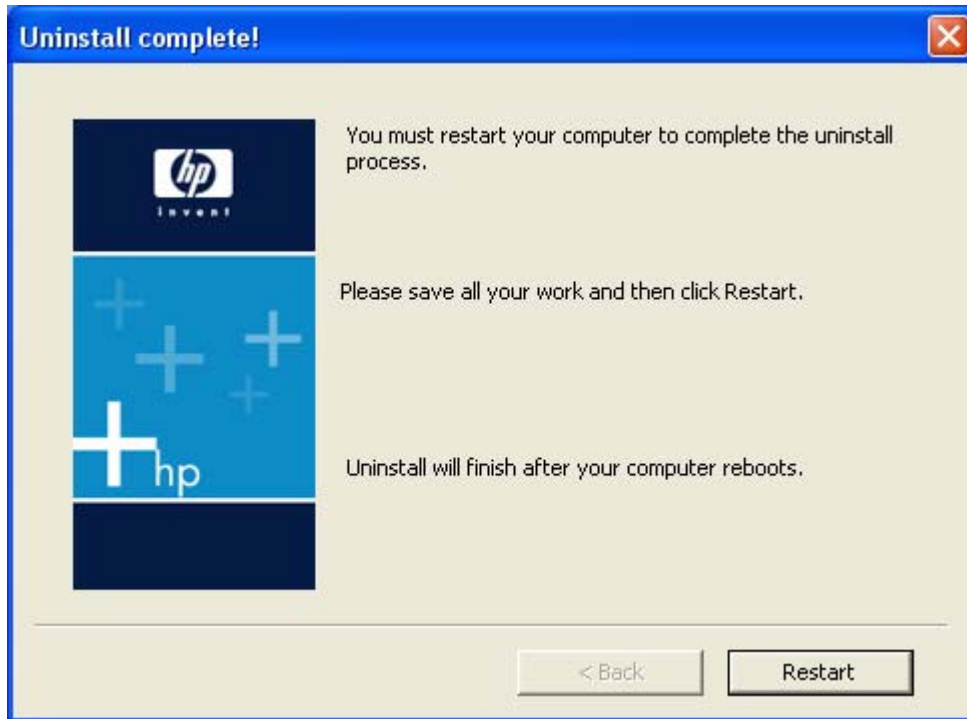
**NOTE** If the device is on and connected to the computer, the following message appears. Unplug the USB cable and then click **Retry** to continue.



**Figure 3-11** HP LaserJet M1005 MFP Driver Uninstall information - unplug device dialog box

A progress bar reflects the status of the uninstall process.

5. When the uninstall process is complete, the **Uninstall complete!** dialog box appears.



**Figure 3-12** Uninstall complete! dialog box

Click **Restart** to restart your computer and finish the uninstall process.

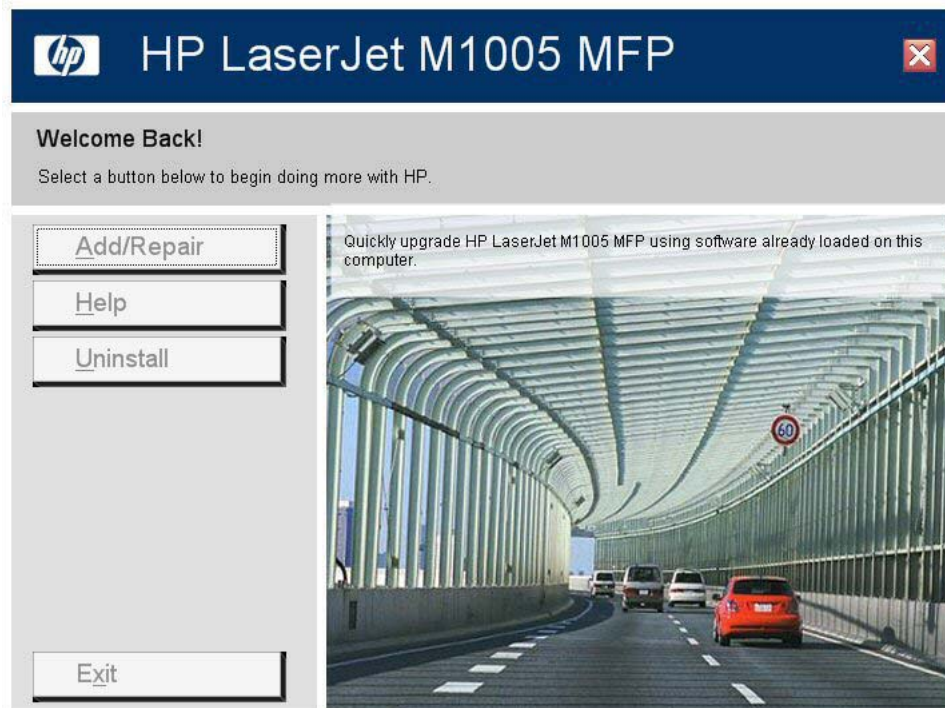


**NOTE** Clicking the x in the upper-right-hand corner will *not* clear the **Uninstall complete!** dialog box.

## Uninstall, add, or repair by using the installation CD

After installing the software, use the installation CD to uninstall the software, add another printer, or repair installation errors.

1. Insert the CD into the CD-ROM drive.



**Figure 3-13** Welcome Back! screen

The Welcome Back! contains options in the left panel. Move the cursor over each option to see a description of the option.

**Add/Repair.** Use this option to add another printer, repair installation errors, or to uninstall the printing-system software.

**Help.** Use this option to view the HP LaserJet M1005 MFP user documentation and support.

**Uninstall.** Use this option to start the uninstall wizard. See [Uninstall instructions for MS Windows 2000, MS Windows XP, and MS Windows Server 2003](#).

**Exit.** Use this option to exit the process.

2. After clicking an option, follow the onscreen prompts to complete the process.



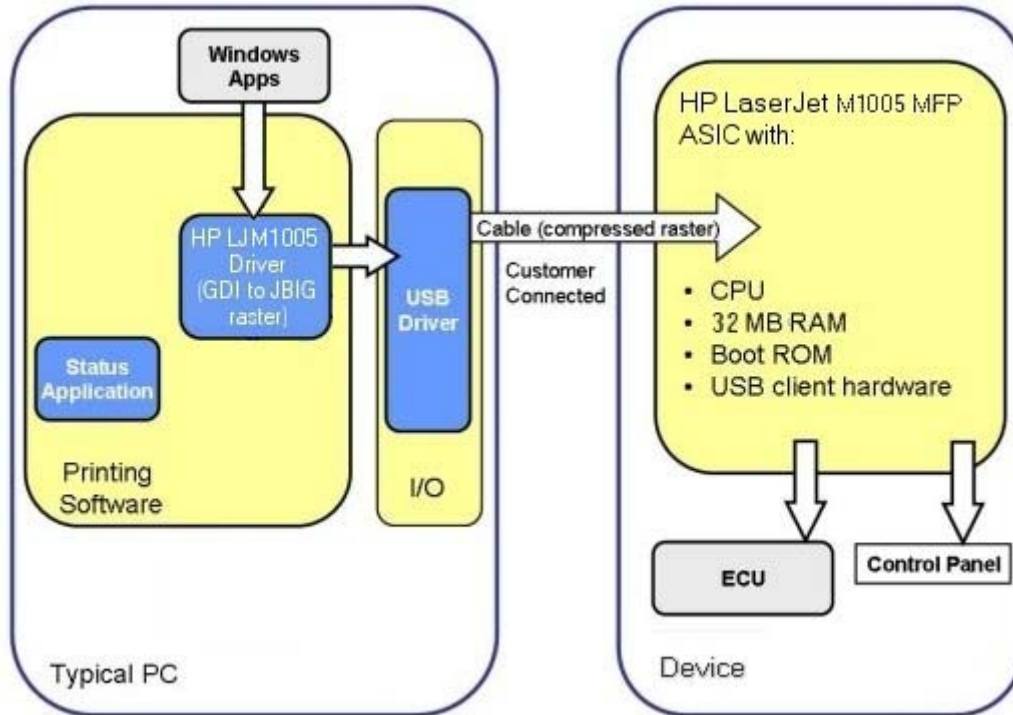
# 4 Host-based driver features for MS Windows

Topics:

- [Introduction to host-based printing](#)
- [Access to the driver](#)
- [Help system](#)
- [Driver tabs](#)

## Introduction to host-based printing

The HP LaserJet M1005 MFP is a host-based device. Host-based printing differs from PCL printing by computing the print job on the host computer rather than computing it in the device formatter. The following illustration shows how the HP LaserJet M1005 MFP printing-system software works.



**Figure 4-1** HP LaserJet M1005 MFP host-based driver overview

As a host-based printing system, the HP LaserJet M1005 MFP print driver uses MS Windows to convert the graphics device interface (GDI) or device driver interface (DDI) calls from software programs into JBIG (standard-compression) compressed pages. These pages are sent in “chunks” through the driver to the device formatter.

The HP LaserJet M1005 MFP print driver also receives status messages from the formatter firmware. These messages are passed to the Status Application, which displays them.

The HP LaserJet M1005 MFP formatter has 2 MB of read-only memory (ROM) and 32 MB of random access memory (RAM). Both the firmware and the compressed page must fit into the 32 MB of RAM.



## Access to the driver

To gain access to driver settings from within most software programs, click **File**, click **Print**, and then click **Properties**. The appearance and names of the driver tabs that appear can vary, depending on the operating system. These settings apply only while the software program is open.

You can also control the driver directly from the **Printers** folder. These settings change the default settings for all software programs.

- In MS Windows 2000, click **Start**, select **Settings**, select **Printers**, right-click the device name, and then click **Printing Preferences** to gain access to the same set of driver tabs that the software program controls.
- In MS Windows XP or MS Windows Server 2003, click **Start**, select **Settings**, select **Printers and Faxes** (MS Windows XP Professional) or **Printers and Other Hardware Devices** (MS Windows XP Home), right-click the device name, and then click **Printing Preferences** to gain access to the same set of driver tabs that the software program controls.

Click **Properties** after right-clicking the device name to gain access to the **Properties** tab set, which controls the driver behavior and driver connections.

## Printing Preferences tab set

The HP LaserJet M1005 MFP host-based **Printing Preferences** tabs contain options for formatting documents for the HP LaserJet M1005 MFP. Gain access to the **Printing Preferences** tabs either through the software program or through the MS Windows **Printers** folder. For more information, see the [Access to the driver](#) section.

The following tabs are included in **Printing Preferences** tab set:

- Advanced
- Paper/Quality
- Effects
- Finishing
- Services

## Properties tab set

The **Properties** tab set contains information about and options for configuring the device.



**NOTE** MS Windows also has tabs in the **Properties** tab set. For information about those tabs, see the documentation that came with the computer.

# Help system

The HP LaserJet M1005 MFP host-based driver includes a full-featured Help system to provide assistance with printing and configuration options. The following Help options are available:

- [What's this? Help](#)
- [Context-sensitive Help](#)
- [Paper Type Warning](#)

## What's this? Help

"What's this?" Help is supported in MS Windows 2000, MS Windows XP, and MS Windows Server 2003. Access "What's this?" Help messages in the following ways:

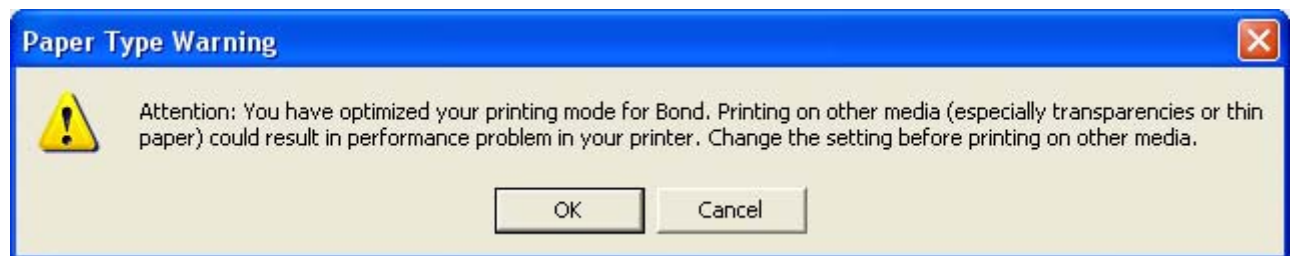
- Right-click a control and click **What's this?**, and a pop-up Help window appears.
- Click the ? button at the upper-right corner of the frame, next to the X, to change the cursor to an arrow with a question mark. Use this special cursor to select a control, and the pop-up Help window for that feature appears.
- Press the **F1** key, and the Help window for the currently selected control appears.

## Context-sensitive Help

Press the **Help** button on a driver tab or in a dialog box, and context-sensitive Help appears.

## Paper Type Warning

Paper type warnings are unsolicited messages that appear in response to specific actions. These messages appear in response to selections that could damage the device. For example, if you select **Bond** in the **Type is:** drop-down menu, a message appears warning you to change the setting before printing on other types of media.



**Figure 4-2** A typical paper type warning

# Driver tabs

Topics:

- [Printing Preferences tab set](#)
- [Properties tab set](#)

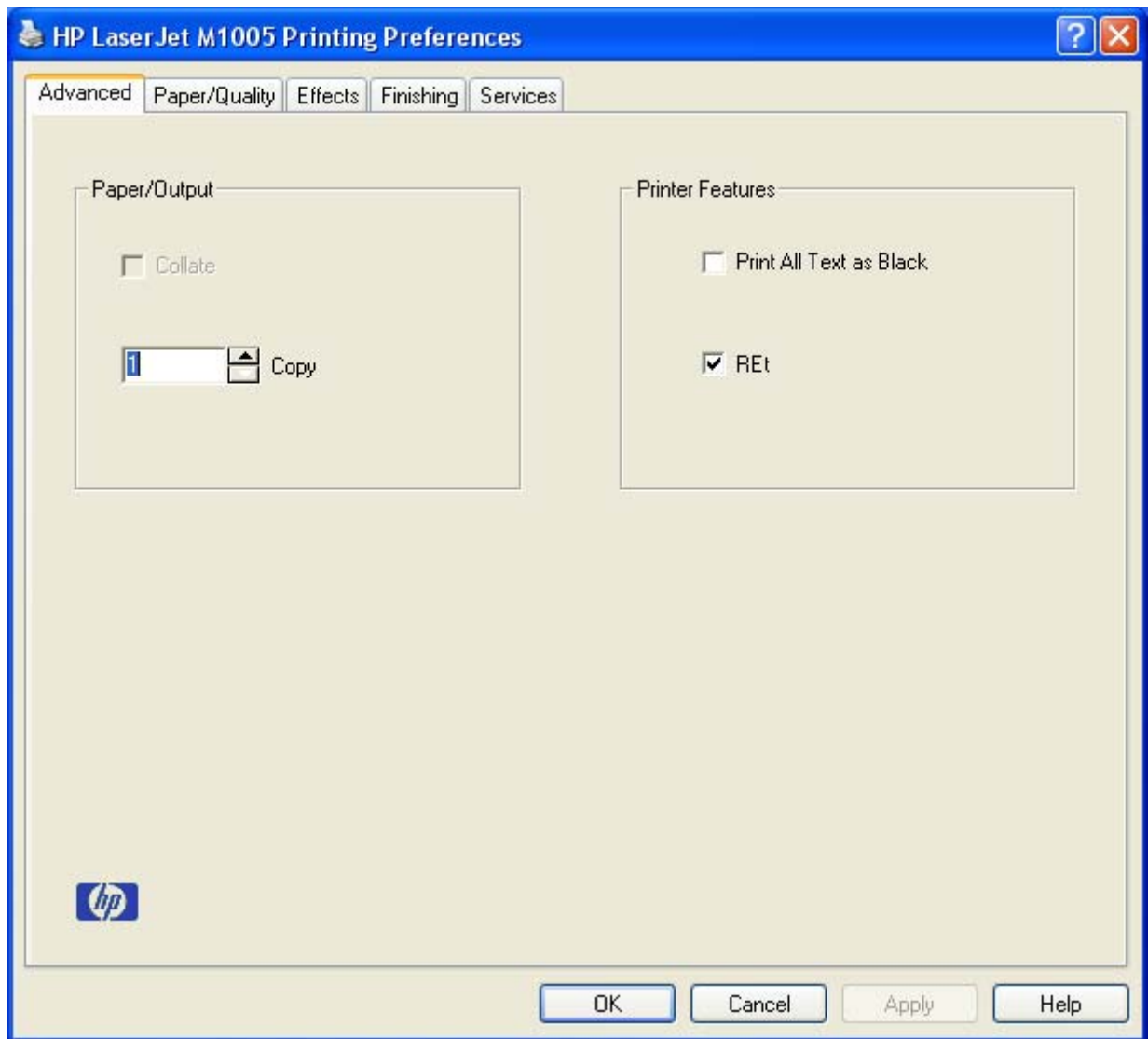
## Printing Preferences tab set

Topics:

- [Advanced tab features](#)
- [Paper/Quality tab features](#)
- [Effects tab features](#)
- [Finishing tab features](#)
- [Services tab features](#)

### Advanced tab features

Use the **Advanced** tab to set the number of copies, collation, and print-job output options. The following illustration shows the **Advanced** tab.



**Figure 4-3** Advanced tab

### Paper/Output

The following settings are in the **Paper/Output** group box:

- [Collate](#)
- [Copy](#)

### Collate

The **Collate** option becomes active if the **Copy** setting is greater than 1. Select **Collate** to collate multiple copy print jobs.

### Copy

This setting is useful for software programs that do not provide a copy count. If a copy count is available in the software program, set the copy count in the software program. **Copy** specifies the number of copies to print.

The requested number of copies appears in the **Copy** option. Select the number by typing in the box or by using the up and down arrows to the right of the text box. For the HP LaserJet M1005 MFP, valid entries are numbers from 1 to 9999. The copies value will not advance from the maximum number (9999) to 1 when the up arrow is used, or change from 1 to the maximum number (9999) when the down arrow is used.

When you click another group box or leave the **Advanced** tab, invalid entries into the edit box (such as non-numerical input, numbers less than 1, or numbers greater than the maximum allowed) change to the last valid value that appeared in the box. The default number of copies is 1.

Because the number of copies can be set from some software programs, conflicts can arise between the software program and the driver. In most cases, the software program and the driver communicate so that the number of copies set in one location (such as the program) appears in the other (such as the driver). For some programs, this communication does not happen, and the copies values are treated independently. For example, setting 10 copies in the program and then setting 10 copies in the driver will result in 100 copies (10 x 10) being printed. Set the number of copies in the program, wherever possible.

## Printer Features

The following settings are in the **Printer Features** group box:

- [Print all Text as Black](#)
- [REt](#)

### Print all Text as Black

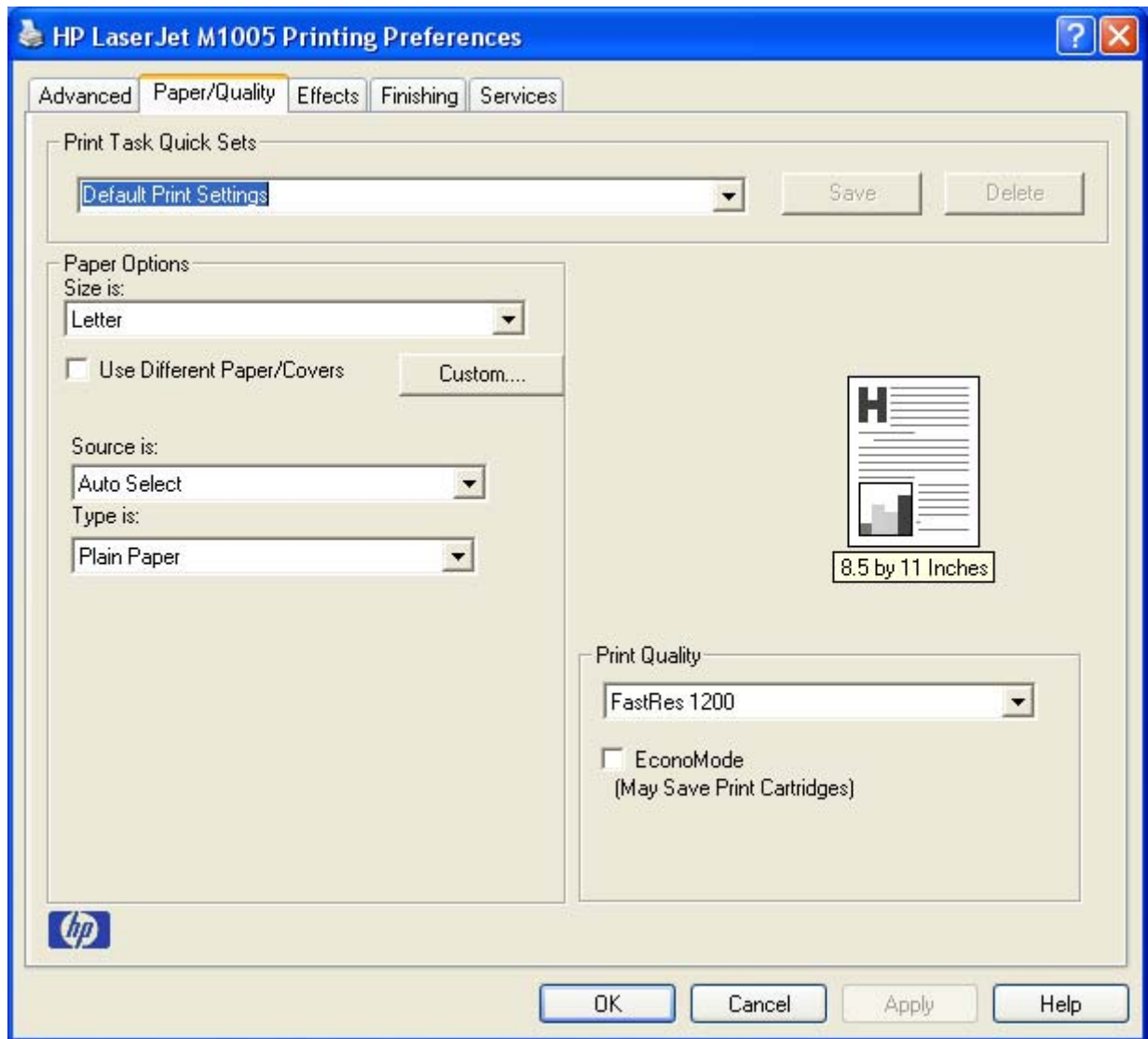
**Print all Text as Black** is off by default. When selected, the driver prints all text as black regardless of the original document text color. However, white text remains white as a fail-safe method of printing reverse typeface against a dark background. This setting does not affect graphic images on the page. **Print all Text as Black** remains selected only for the current print job.

### REt

Resolution Enhancement technology (REt) refines the print quality of characters by smoothing out jagged edges that can occur on the angles and curves of a printed image. It is **On** by default. Select **Off** if graphics, particularly scanned images, are not printing clearly.

## Paper/Quality tab features

Use the **Paper/Quality** tab to specify the size, type, and source of the media for the HP LaserJet M1005 MFP. You can also use this tab to indicate different paper-selection choices for the first page, other pages, and back cover of the document. The following illustration shows the **Paper/Quality** tab.



**Figure 4-4** Paper/Quality tab

### Print Task Quick Sets

The first group box in the upper portion of the **Paper/Quality** tab is **Print Tasks Quick Sets**. Because they are all the same control, any change to the **Print Task Quick Sets** group box that is made on the **Paper/Quality** tab affects the **Print Task Quick Sets** group boxes on the other driver tabs. The following tabs contain **Quick Sets** group boxes:

- **Paper/Quality**
- **Effects**
- **Finishing**

Use the **Print Task Quick Sets** setting to store the current combination of driver settings that appears on all of the other print driver tabs. **Print Task Quick Sets** are user-defined printing specifications (such as media size, pages per sheet, and so on). The **Print Task Quick Sets** control does *not* appear on the driver **Properties** tabs.

The following selections are available in the **Print Task Quick Sets** drop-down menu:

- [Default Print Settings](#)
- [User's Manual](#)
- [Type new Quick Set name here](#)

## Default Print Settings

When you select **Default Print Settings**, nearly all of the settings are restored to the combination that existed after the driver was installed (the original settings). However, if the attribute combinations that are associated with watermark definitions or custom paper sizes have been changed or deleted, the original settings are *not* restored.

**Type new Quick Set name here** appears in the **Print Task Quick Sets** menu automatically if no other driver settings have been changed since the driver was installed, or if all of the driver settings match the original settings. Otherwise, the setting in the **Print Task Quick Sets** menu is the same label that appeared when a user on the computer last closed the printing **Properties** dialog box by clicking **OK**.

## User's Manual

The **User's Manual** option provides a **Print Task Quick Sets** setting for optimal printing of the *HP LaserJet M1005 User Guide*.

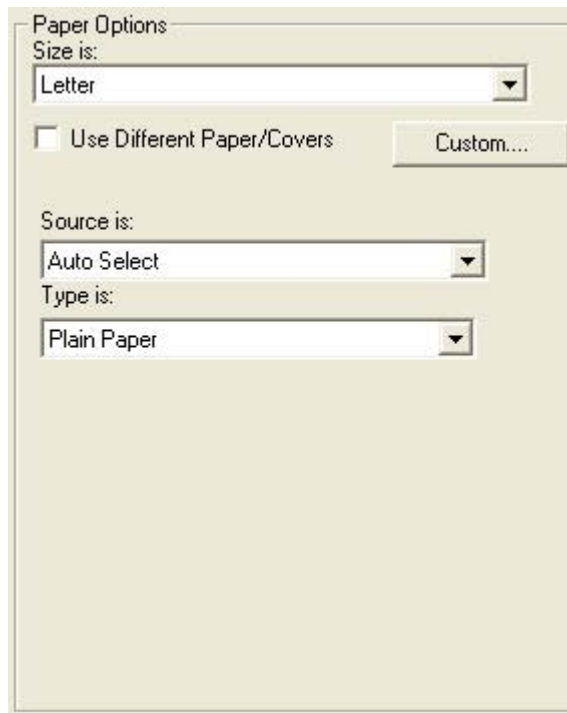
## Type new Quick Set name here

By default, the **Print Task Quick Sets** menu is set to **Type new Quick Set name here**. When you change any of the default settings on any of the **Printing Preferences** driver tabs, **Type new Quick Set name here** appears in the **Print Task Quick Sets** menu and the **Save** button becomes active. Highlight the words **Type new Quick Set name here**, type the name for the new Print Task Quick Set, and then click **Save**. Print Task Quick Sets are saved in the system registry. To delete a Print Task Quick Set, select it from the drop-down menu and then click **Delete**.

Store a maximum of 25 **Print Task Quick Sets** on any system. If you attempt to save too many, a message box appears that states: **There are too many Quick Sets defined. Please delete some before adding new ones.**

## Paper Options

The settings specified in the **Paper Options** group box on the **Paper/Quality** tab apply to all of the pages of the document. The following illustration shows the **Paper Options** group box and the selections available.



**Figure 4-5** Paper Options group box

The following are settings in the **Paper Options** group box:

- [Size is:](#)
- [Source is:](#)
- [Type is:](#)

#### Size is:

The **Size is:** setting is a drop-down menu that lists all of the supported media sizes.

Specify the size for all the settings in the **Paper Options** group box. You must use the same size of media for the entire print job. That is, if the print job uses letter-size media, any option that you select from the available **Use Different Paper/Covers** options must also use letter-size media.



**NOTE** Certain software programs can override the size command and specify different media sizes within a single document.

For the **Other Pages** and **Back Cover** settings, select a source (tray) and media type that differ from the settings selected for **First Page**. If a conflict exists among media source, media size, and/or media type, and you choose to keep the conflicting settings, the settings are processed in the following order: media size, media type, and then media source.

Because driver settings are overridden by media-size settings in most software programs, use the driver to set media size only for software programs that don't have a media-size setting, such as NotePad, or when producing a book or a booklet that does not require different media sizes.



**NOTE** When using a software program that has a media-size setting, specify different media sizes within a single document by using the **Use Different Paper/Covers** options. For more information, see [Use Different Paper/Covers check box](#).



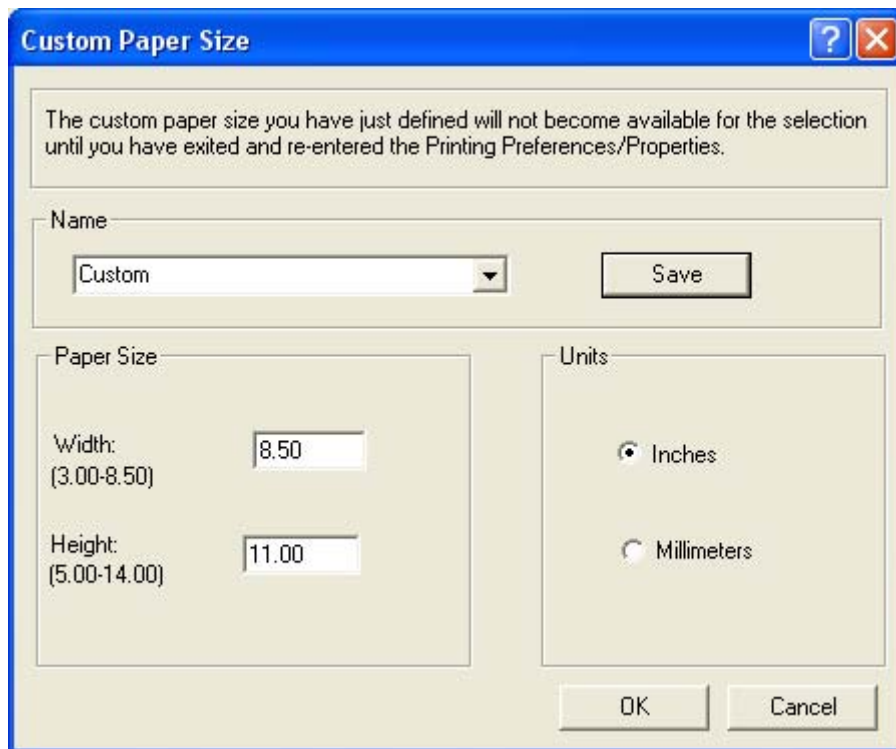
For more information about media sizes, see [Media attributes](#).

### Use Different Paper/Covers check box

When the **Use Different Paper/Covers** check box is selected, the **Front Cover**, **First page**, **Other pages**, **Last page**, and **Back Cover** options become available. Click any of these options and then select **Size is:**, **Source is:**, and **Type is:** for each option.

### Custom Paper Size group

Click the **Custom** button to open the **Custom Paper Size** dialog box.



**Figure 4-6** Custom Paper Size dialog box

Use the **Custom Paper Size** dialog box to create or modify custom-paper-size information. The **Custom Paper Size** dialog box contains the following options:

- **Name** field. Click the text box to type a name for the custom paper size or click the drop-down menu to select a custom paper size that is already defined.
- **Paper Size** group box. If you type in a size that is too large or too small, the driver automatically adjusts the size.
  - **Width:** spin box. Use the spin controls to select the width for the custom paper size, or click in the text box to type the width.
  - **Height:** spin box. Use the spin controls to select the height for the custom paper size, or click in the text box to type the height.
- **Units** group box. Select inches or millimeters to define the custom paper size.

Click **Save** to save the custom size or click **Close** to return to the **Paper/Quality** tab.

## Source is:

The **Source is:** setting specifies the source tray to use for printing a document.

The **Source is:** drop-down menu can contain the following options:

- **Auto Select**
- **Manual Feed**
- **Tray 1**

The default setting is **Auto Select**. When this is selected, the device uses the source tray that supports the selected media size. If you select a source tray other than **Auto Select**, make sure that the correct media size is loaded in the source tray.

For more information about media sources, see [Media attributes](#).

## Type is:

The **Type is:** drop-down menu shows all the paper types that the HP LaserJet M1005 MFP supports. When you use the default setting, **Letter**, the device uses the default media type, which is usually **Plain**.

The following standard paper types appear in the lists.

**Table 4-1** Standard paper types and engine speed

Paper type	Engine speed
Plain	Full – 1:1
HP Multipurpose Paper	Full – 1:1
HP Office Paper	Full – 1:1
HP All-in-One Printing Paper	Full – 1:1
HP LaserJet Paper	Full – 1:1
HP Premium Choice LaserJet Paper	Full – 1:1
Preprinted	Full – 1:1
Letterhead	Full – 1:1
Transparency	Half – 1:2
Prepunched	Full – 1:1
Labels	Half – 1:2
Bond	Half – 1:2 <sup>1</sup>
Recycled	Full – 1:1
Color	Full – 1:1
Light (< 75 g/m <sup>2</sup> )	Full – 1:1
Heavy (90 to 105 g/m <sup>2</sup> )	Half – 1:2 <sup>1</sup>
Cardstock (105 to 176 g/m <sup>2</sup> )	Half – 1:2 <sup>1</sup>
Envelope	Half – 1:2 <sup>1</sup>

**Table 4-1** Standard paper types and engine speed (continued)

Paper type	Engine speed
Rough	Half – 1:2 <sup>1</sup>

<sup>1</sup> Throughput for continuous printing might be less than 4 pages per minute as a result of fuser heating limitations.

The default setting is **Plain**. If you select a different setting, make sure that the correct media type is loaded in the tray selected in the **Source is:** setting.

For more information about media types, see [Media attributes](#).

### Use Different Paper/Covers options

Print books that include different media types by using the **Use Different Paper/Covers** options.

Select the **Use Different Paper/Covers** check box to make the following settings appear in the group box, along with associated options:

- **Front Cover**
- **First Page**
- **Other Pages**
- **Last Page**
- **Back Cover**

To use **Use Different Paper/Covers** options, configure the setting for the print job. Each option for the **Use Different Paper/Covers** setting is described in the sections that follow this procedure. Use the following instructions to configure the setting.

### To configure the Use Different Paper/Covers options for a print job

For each option, set a different tray by using the **Source Is:** drop-down menu. For some options, the **Type is:** drop-down menu is also available.

1. To use different paper or cover stock, select the **Use Different Paper/Covers** check box. A list of options appears in the dialog box. The full set of selections is visible by using the down arrow button to the right of the list to scroll.
2. To use different media for the pages within the print job, select the appropriate option (**Front Cover**, **First Page**, **Other Pages**, **Last Page**, or **Back Cover**) in the dialog box. A check mark appears to the left of the option when a setting is changed using the **Source is:** or **Type is:** drop-down menus.
3. Click **OK** to print.



**NOTE** Use the same size of media for the entire print job. All options selected from the available **Use Different Paper/Covers** options use the size selected in the **First Page** settings.

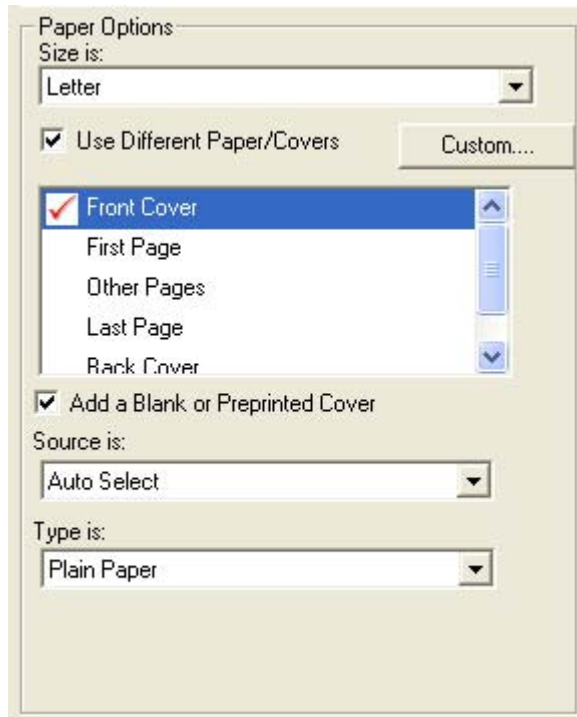
When you change the type and source of the paper and covers, the settings remain configured until you close the software program.

Each option for the **Use Different Paper/Covers** setting is described in the following sections.

## Front Cover and Back Cover options

Use these options to include a blank or preprinted front cover or back cover on a document.

The following illustration shows the **Front Cover** setting and options. These options are the same for the **Back Cover** setting.



**Figure 4-7** Front Cover setting

The **Front Cover** and **Back Cover** options are as follows:

- **Add a Blank or Preprinted Cover** check box
- **Source is:** drop-down menu
- **Type is:** drop-down menu

When you select **Front Cover** or **Back Cover**, also select the **Add a Blank or Preprinted Cover** check box to enable the setting. When this check box is selected, the **Source is:** and **Type is:** drop-down menus become available and a check mark appears next to the **Front Cover** or **Back Cover** option.



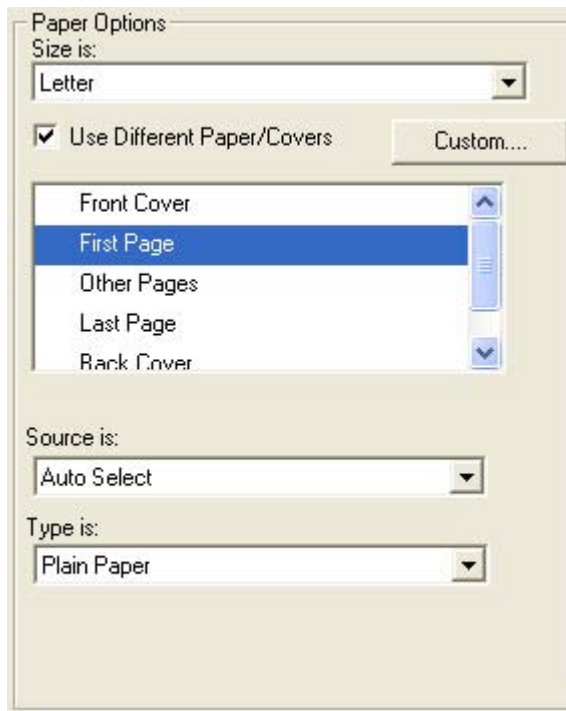
**NOTE** The **Back Cover** options are not available when the **Booklet Layout** setting is enabled on the **Finishing** tab. For two-page-per-sheet (2-up) booklet printing, include a cover by selecting different media for the first page only. The back cover setting is unavailable, because this page would be printed in the middle of a booklet.

The **Source is:** setting specifies the source tray to use for adding a back cover to the document. The list of source trays depends on the installed accessories. Any optional media trays that are installed through the **Configure** tab also appear here. For more information about the **Source is:** setting, see the [Source is:](#) section of this chapter.

The **Type is:** drop-down menu shows all of the media types that the printer supports. For more information about the **Type is:** drop-down menu settings, see the **Type is:** in the [Type is:](#) section of this chapter.

## First Page, Other Pages, and Last Page options

Use these options to select an alternative media size, type, or source for the first page, other pages, or last page of a document. The following illustration shows the appearance of the **Paper Options** group box when the **Use Different Paper/Covers** check box is selected.



**Figure 4-8** First Page, Other Pages, and Last Page options

The **First Page**, **Other Pages**, and **Last Page** options are as follows:

- **Size is:** drop-down menu
- **Source is:** drop-down menu
- **Type is:** drop-down menu

The **Size is:** driver setting for the first page applies to the entire print job. When this is set, the setting becomes unavailable for all the other **Use Different Paper/Covers** options.

## Document preview image

The document preview image is a line-drawn image of a page that represents graphics and text. The document preview image is always oriented so that the contents of the page are right-side-up. The document preview image appears in the upper-right corner of the **Paper/Quality**, **Effects**, and **Finishing** tabs.

Switching between tabs does not change the location or appearance of the document preview image. Move the mouse over the document preview image, and the mouse cursor changes from an arrow to a gloved hand. Toggle between portrait and landscape page orientation by clicking on the image.

## Print Quality

The **Print Quality** group box contains the **Print Quality** drop-down box and the **EconoMode** check box.

The default setting for **Print Quality** is **FastRes 1200**.

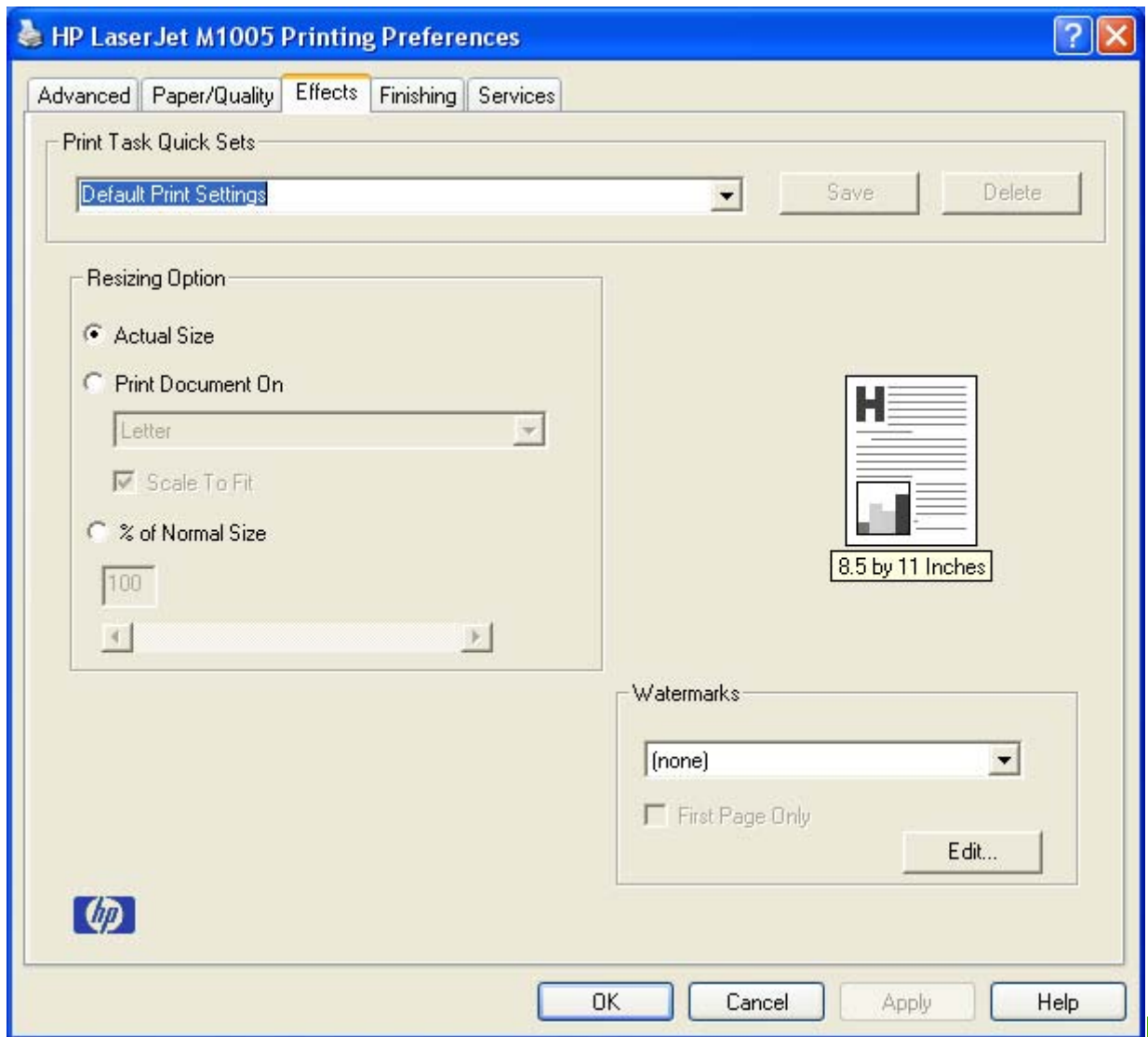
This setting controls resolution, which refers to the number of dots per inch (dpi) used to print the page. As resolution is increased, the quality (clarity and visual appeal) of print on the page is improved. However, higher resolution might also result in longer printing times. The following **Print Quality** options are available in the drop-down box:

- **FastRes 1200**
- **600 dpi**

Select the **EconoMode** check box in conjunction with any of the print quality settings. When using EconoMode, the device uses less toner on each page. Using this option might extend the life of the print cartridge and can lower the cost per page, but also reduces print quality. Using the EconoMode feature with non-HP print cartridges can result in toner spillage or device damage.

## Effects tab features

Use the **Effects** tab to create unique media effects such as scaling and watermarks. The following illustration shows the **Effects** tab.



**Figure 4-9** Effects tab

The **Effects** tab contains the following controls:

- [Print Task Quick Sets](#)
- [Resizing Option](#)
- [Document preview image](#)
- [Watermarks](#)

### Print Task Quick Sets

Use the **Print Task Quick Sets** control to store the current combination of driver settings that are found on all other **Printing Preferences** driver tabs. Print Task Quick Sets are either preset or user-defined printing specifications, such as paper size and pages per sheet. For more information, see [Print Task Quick Sets](#) in the **Paper/Quality** tab section of this guide.

## Resizing Option

The **Resizing Option** group box consists of the following controls:

- [Actual Size](#)
- [Print Document On](#)
- [Scale to Fit](#)
- [% of Normal Size](#)

### Actual Size

Select the **Actual Size** option to print the page at normal size. This option is the default.

### Print Document On

Select the **Print Document On** option to format the document for one paper size and then print the document on a different paper size, with or without scaling the image to fit the new paper size.

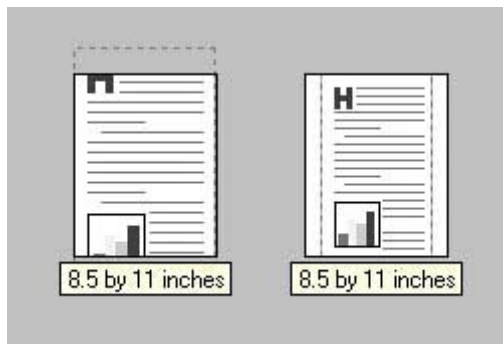
The **Print Document On** control is disabled by either of the following conditions:

- The **% of Normal Size** value is not 100.
- The **Pages per Sheet** value (on the **Finishing** tab) is not 1.

When **Print Document On** is selected, the drop-down menu shows the available media sizes. The list contains all of the standard media sizes that are supported by the selected media source and any custom sizes that have been created. When **Print Document On** is selected, **Scale to Fit** is automatically selected.

### Scale to Fit

The **Scale to Fit** option box specifies whether each formatted document page image is scaled to fit the target paper size. By default, **Scale to Fit** is selected when **Print Document On** is selected. If the setting is turned off, then the document page images will not be scaled, and are instead centered at full size on the target paper. If the document size is larger than the target paper size, then the document image is clipped. If it is smaller, then it is centered within the target paper. The following illustration shows preview images for a document that is formatted for legal-size paper and where the **Print Document On** check box is selected and the target size is specified as **Letter**.



**Figure 4-10** Preview images - Legal on Letter; Scale to Fit off (left) and on (right)

When the size for which the document is formatted (that is, the logical size) differs from the target size, the preview image uses a dashed gray line to show the boundaries of the logical page in relation to the target page size.



## % of Normal Size

The **% of Normal Size** option provides a slider bar to use for scaling the percentage setting. The default setting in the entry box is 100% of normal size. Normal size is defined as the paper size that is selected within the driver or what the driver receives from the software program (if the software program does not negotiate the paper size with the driver). The driver scales the page by the appropriate factor and sends it to the device.

The limits of the range are from 25% to 400%, and any values outside the range are adjusted to those limits as soon as the focus is removed from the control (that is, when the **Tab** key is pressed or another control is selected).

Any change to the scale also changes the page preview, which increases or decreases from the upper-left corner of the preview.

The slider bar controls the scale directly. The value in the edit box changes as the scroll bar indicator is dragged, and the preview image is updated to the new image scale. Each click on the scroll bar arrows increases or decreases the scale by 1%. Each click on the slider bar affects the scale by 10%.

You cannot achieve an exact value by dragging the scroll bar indicator at the default Microsoft Windows resolution; use the scroll bar indicator to approximate the value, and then use the scroll bar arrows to refine the value.

The following settings disable **% of Normal Size**:

- **Print Document On** (on the **Effects** tab) is selected
- **Pages per Sheet** (on the **Finishing** tab) is not 1

## Document preview image

The document preview image is a line-drawn image of a page that represents graphics and text. The document preview image is always oriented so that the contents of the page are right-side up. The document preview image appears in the upper-right corner of most **Printing Preferences** driver tabs (the **Paper/Quality**, **Effects**, and **Finishing** tabs).

Switching between tabs does not change the location or appearance of the document preview image. Move the mouse over the document preview image, and the mouse cursor changes from an arrow to a gloved hand. Toggle between portrait and landscape page orientation by clicking on the image.

## Watermarks

Use the **Watermarks** feature to select a watermark, create a custom watermark (text only), or edit an existing watermark. The following watermarks are preset in the driver.

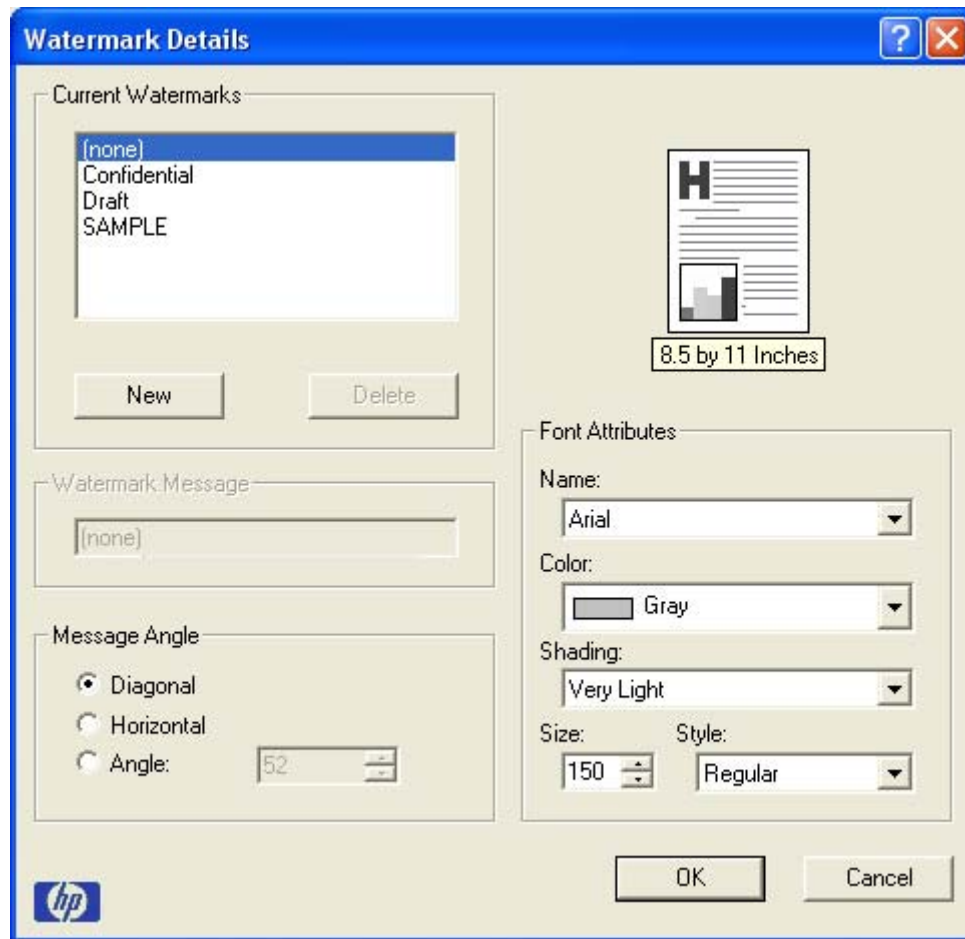
- [Current Watermarks](#)
- [Watermark Message](#)
- [Message Angle](#)
- [Font Attributes](#)

The drop-down menu shows alphabetically sorted watermarks that are currently available on the system plus the string "(none)", which indicates that no watermark is selected. This is the default setting. Any watermark selected from this list appears in the preview image.

When the **First Page Only** check box is selected, the watermark is printed only on the first page of the document. The **First Page Only** check box is disabled when the current watermark selection is "(none)".

Watermarks are applied to logical pages. For example, when **Pages per Sheet** is set to "4" and **First Page Only** is turned off, four watermarks appear on the physical page (one on each logical page).

Click **Edit**, and the **Watermark Details** dialog box appears.



**Figure 4-11 Watermark Details**

The dialog box shows a preview image and provides options for creating a new watermark and controlling the message angle and font attributes.

Click **OK** to accept all of the changes that are made in the **Watermark Details** dialog box. However, clicking **Cancel** does not cancel all of the changes. If you make changes to a watermark, and then select a different watermark or click **New**, all of the changes made to the previous watermark are saved, and only the current, unsaved changes can be canceled.

### Current Watermarks

The **Current Watermarks** group box contains a list of available watermarks, both the predefined watermarks made available in the driver and any new watermarks that have been created.

To create a new watermark, click **New**. The new watermark appears in the **Current Watermarks** list and in the **Watermark Message** edit box as "&Units" until you name it. The name typed in the **Watermark Message** field appears in the **Current Watermarks** group box in the **Watermark Details** dialog box and in the **Watermarks** group box on the **Effects** tab.

To name the new watermark, type the selected watermark text in the **Watermark Message** edit box. To delete a watermark, select the watermark in the **Current Watermarks** list and click **Delete**. A warning appears asking whether you are sure you want to delete the selected item. Click **Cancel** if you want to keep the watermark. Click **OK** to delete the selected watermark.



**NOTE** No more than 30 watermarks can be saved in the **Current Watermarks** list at one time. When the limit of 30 watermarks is reached, the **New** button is disabled.

To edit an existing watermark, select the watermark in the **Current Watermarks** list. If you change the **Watermark Message** for that watermark, you are, in effect, creating a new watermark.

## Watermark Message

The **Watermark Message** is also the name that identifies the watermark in the **Current Watermarks** list, except when more than one watermark has the same message. For example, several different watermarks can contain the message DRAFT, each with a different typeface or font size. When this occurs, the string is appended with a space, a pound sign, and a number (for example, **Draft #2**). When a number is added, the number two is used first, but if the resulting name is also in the list, then the number increases until the name is unique (**Draft #3**, **Draft #4**, and so on).

## Message Angle

Use the controls in the **Message Angle** group box to print the watermark in different orientations in relation to the text on the page. The settings are **Diagonal**, **Horizontal**, or **Angle** (custom). The default is **Diagonal**. All three settings automatically center the watermark string within the page; the selection of a particular setting affects only the angle of the string placement. **Diagonal** places the text along a line that spans the lower-left to upper-right corners of the page. **Horizontal** places the text along a line that spans the mid-left and mid-right edges of the page. **Angle** places the text at the specified angle across the page.

## Font Attributes

Use the controls in the **Font Attributes** group box to change the font and the shading, size, and style of the font.

The **Font Attributes** group box contains the following controls:

- **Name** drop-down menu
- **Color** drop-down menu
- **Shading** drop-down menu
- **Size** spin box
- **Style** drop-down menu

### Name

The **Name** drop-down menu lists fonts that are currently installed on the system. The default is language-dependent.

### Color

The **Color** option is a fixed, unalterable set of color choices for the watermark: **Gray**.

## Shading

The default **Shading** setting for new and preset watermarks is **Very Light**. The following range of shades is available from the **Shading** drop-down menu:

- **Lightest**
- **Very Light** (default)
- **Light**
- **Medium Light**
- **Medium**
- **Medium Dark**
- **Dark**
- **Very Dark**
- **Darkest**

These values represent the intensity of the gray that is used. A choice of **Light** produces a lightly saturated gray watermark. A choice of **Lightest** produces the lightest shade of watermark; **Darkest** produces a black watermark.

## Size

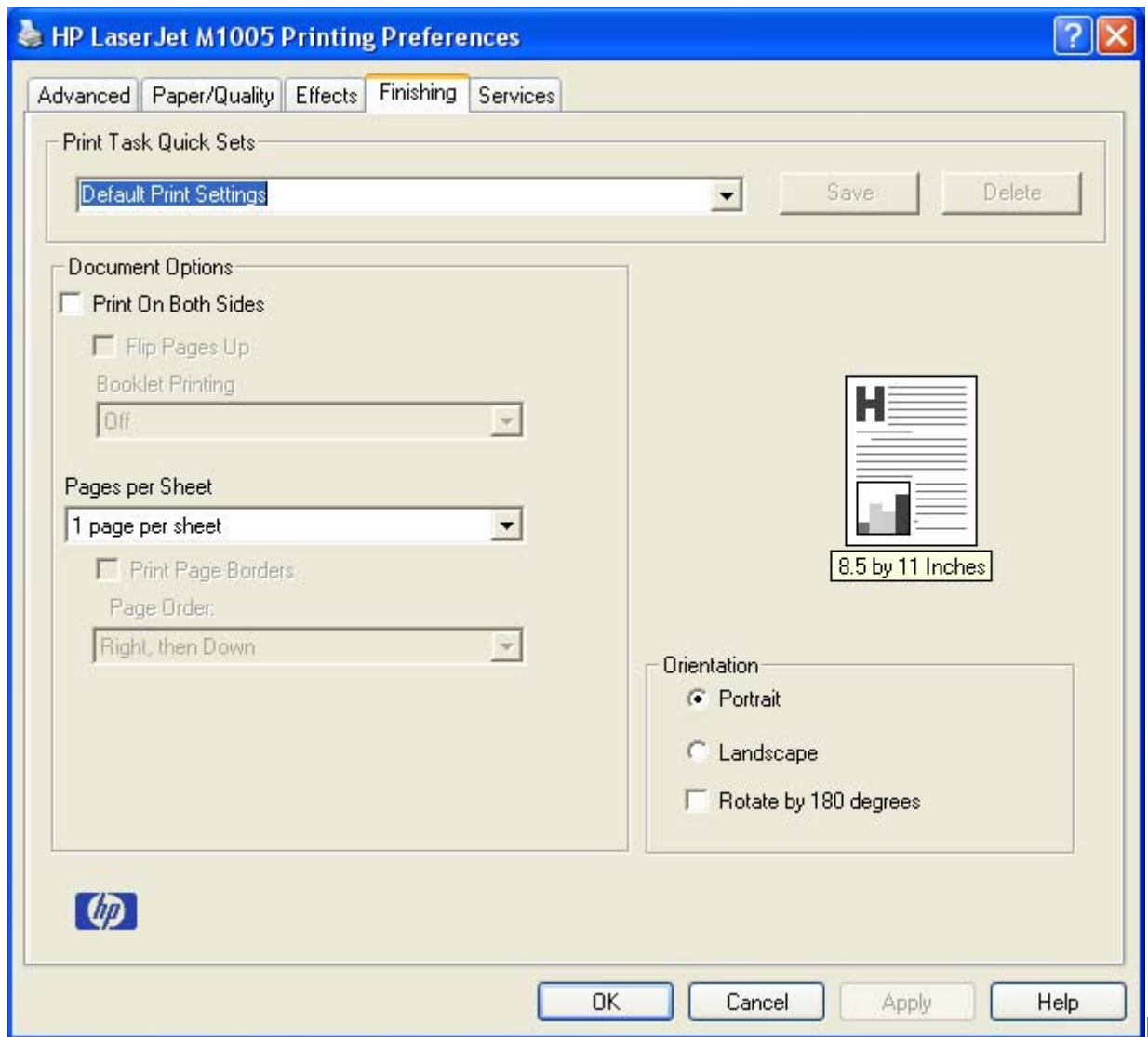
Font sizes from 1 to 999 points are available from the **Size** menu. The default point size is language-dependent. The choice of **Regular**, **Bold**, **Italic**, and **Bold Italic** is available from the **Style** drop-down menu.

## Style

The choice of **Regular**, **Bold**, **Italic**, and **Bold Italic** is available from the **Style** drop-down menu. The default **Style** setting for new and preset watermarks is **Regular**.

## Finishing tab features

Use the **Finishing** tab to print booklets and control the media output. The following illustration shows the **Finishing** tab.



**Figure 4-12** Finishing tab

The **Finishing** tab contains the following controls:

- [Print Task Quick Sets](#)
- [Document Options](#)
- [Document preview image](#)
- [Orientation](#)

### Print Task Quick Sets

Use the **Print Task Quick Sets** control to store the current combination of driver settings that appear on all of the other **Printing Preferences** driver tabs. Print Task Quick Sets are either preset or user-defined printing specifications, such as paper size and pages per sheet. For more information, see [Print Task Quick Sets](#) in the **Paper/Quality** tab section of this chapter.

## Document Options

The **Document Options** group box contains the following controls:

- [Print on Both Sides](#)
- [Flip Pages Up](#)
- [Booklet layout](#)
- [Pages per Sheet](#)
- [Print Page Borders](#)
- [Page Order](#)

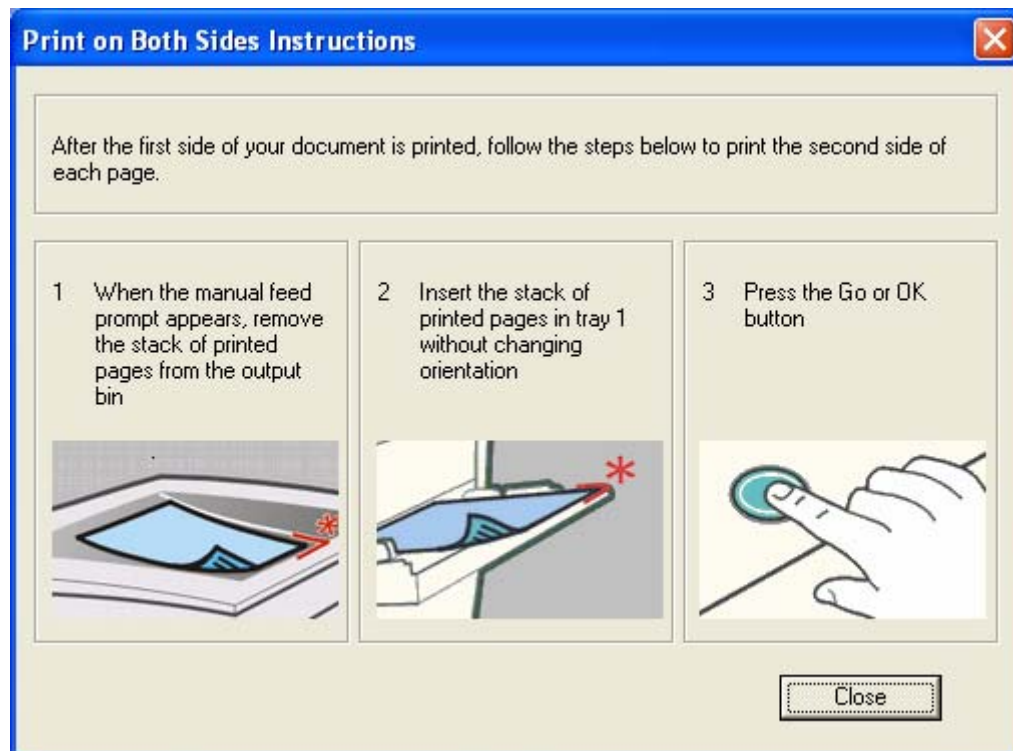
### Print on Both Sides



**NOTE** The **Print on Both Sides** check box is unavailable if the **Allow Manual Duplexing** option is disabled on the **Device Settings** tab in the **Properties** tab set.

The default setting for the **Print on Both Sides** option is off (not selected). Selecting **Print on Both Sides** makes the **Flip Pages Up** and **Booklet Printing** options available.

When a print job is sent to the device with the **Print on Both Sides** option selected, the even pages print, and then the following dialog box appears with instructions to complete the manual duplex process.



**Figure 4-13** Print on Both Sides Instructions

Instructions for manually printing on both sides

Follow these steps to manually print on both sides.

- 1. Click **File**, click **Print**, and then click **Properties**.
- 2. Click the **Finishing** tab, and then click the **Print on Both Sides** check box. Click **OK** to continue.
- 3. When the even-numbered pages have printed, the **Load Tray (X) - Press ✓** message appears on the device control panel and the **Print on Both Sides Instructions** dialog box appears on the computer screen.
  - a. Without changing the orientation, remove the paper stack from the output bin. Do not discard blank sheets.
  - b. Insert the paper stack into the same input tray that the even-numbered pages (first sides) were printed from, maintaining the same orientation (that is, with the same edge of the page feeding into the device first).
  - c. Press the **OK** button to print the odd-numbered pages.

Flip Pages Up

The **Flip Pages Up** check box, enabled only when **Print on Both Sides** is selected, is used to specify the duplex-binding option. By default, the **Flip Pages Up** check box is *not* selected. The following table demonstrates the results of selecting this box, depending on the paper orientation selected on the **Finishing** tab.

Table 4-2 Page orientation

Orientation (Finishing tab)	Flip Pages Up selected	Flip Pages Up not selected
Portrait	Short-edge binding	Long-edge binding
Landscape	Long-edge binding	Short-edge binding

When **Print on Both Sides** is selected, the document preview image changes to show a spiral binding along either the left edge or the top edge of the page. In addition, a folded-over corner appears in the lower-right portion of the preview image, indicating that printing occurs on the back side. An arrow on the folded-over corner points in the direction that the pages would be flipped if they were bound together.

Short-side binding is for print jobs with pages that read by flipping over like the pages of a notepad. Long-side binding is for print jobs with pages that read by turning like the pages of a book.

Booklet layout

The **Booklet Layout** drop-down menu, visible when **Print on Both Sides** is selected, offers choices that are based on the current paper size. The default setting for the **Booklet Printing** drop-down menu is **Off**.

- **Left Edge Binding**
- **Right Edge Binding**

Selecting **Left Edge Binding** or **Right Edge Binding** changes the document preview image to show the location of the binding. If the **Pages per Sheet** setting is on the default setting of 1, it automatically changes to **2 pages per sheet**. Changing the **Pages per Sheet** setting manually to 4, 6, 9, or 16 pages

per sheet disables the booklet setting. See the [Printing a Booklet](#) section of this chapter for more information.

The **Booklet Layout** setting is disabled when A6 or B6 (JIS) is selected as the media size, and an incompatibility-error message appears when you click **OK** to close the driver.

## Book and booklet printing

The HP LaserJet M1005 MFP supports book and booklet printing.

A book is a print job consisting of at least two pages that can have a different media type for the first page, other pages, or back cover. Use the **First Page**, **Other Pages**, and **Back Cover** settings on the **Paper/Quality** tab (available when you select the **Use Different Paper** check box) to select different media for these pages.

A booklet is a print job that places two pages on each side of a sheet that can be folded into a booklet that is half the size of the media type. Use the **Booklet Layout** drop-down menu on the **Finishing** tab to control booklet settings.

## Printing a Booklet

Complete the following steps to print a booklet.

1. Click **File**, click **Print**, and then click **Properties**.
2. Click the **Device Settings** tab and select the **Print on Both Sides** check box.
3. In the **Booklet Layout** drop-down menu, select the type of booklet printing that you want. For example, **Right Edge Binding**.
4. Click **OK** in the print driver.
5. Click **OK** in the **Print** dialog box to print.

## Printing a book

You can print a book in which the first page, other pages, and back cover have different media types. For more information, see the [Paper/Quality tab features](#) section of this chapter.

## Pages per Sheet

Use the **Pages per Sheet** option to select the number of pages to print on a single sheet of media.

If you print more than one page per sheet, the pages appear smaller and are arranged on the sheet in the order that they would otherwise be printed. The **Pages per Sheet** drop-down menu provides six settings:

- **1 page per sheet** (default)
- **2 pages per sheet**
- **4 pages per sheet**
- **6 pages per sheet**
- **9 pages per sheet**
- **16 pages per sheet**





**NOTE** Selecting an option other than **2 pages per sheet** makes booklet printing unavailable.

## Print Page Borders

Related controls indented beneath the **Pages per Sheet** edit box are **Print Page Borders** and **Page Order**, which become active when **Pages per Sheet** is greater than 1.

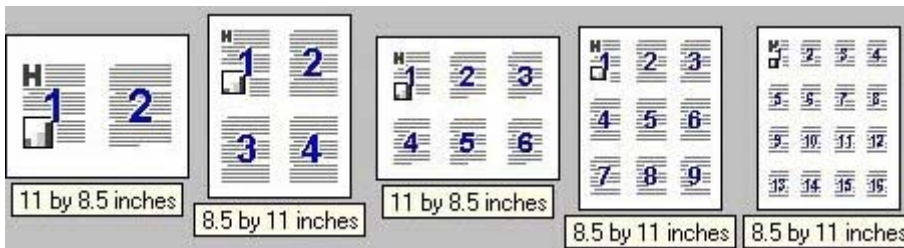
**Print Page Borders** sets a line around each page image on a printed sheet to help visually define the borders of each logical page.

## Page Order

The **Page Order** drop-down menu contains four selections:

- **Right, then Down**
- **Down, then Right**
- **Left, then Down**
- **Down, then Left**

The preview document image changes to reflect alterations in these settings, as shown by the examples in the following illustration.



**Figure 4-14** Page-order preview images

- **2 pages per sheet**
- **4 pages per sheet**
- **6 pages per sheet**
- **9 pages per sheet**
- **16 pages per sheet**

## Document preview image

The document preview image is a line-drawn image of a page that represents graphics and text. The document preview image is always oriented so that the contents of the page are right-side up. The document preview image appears in the upper-right corner of most **Printing Preferences** driver tabs (the **Paper/Quality**, **Effects**, and **Finishing** tabs).

Switching between tabs does not change the location or appearance of the document preview image. Move the mouse over the document preview image, and the mouse cursor changes from an arrow to a gloved hand. Toggle between portrait and landscape page orientation by clicking on the image.

## Orientation

The **Orientation** group box contains the following options:

- **Portrait** option button
- **Landscape** option button
- **Rotate 180 degrees** check box

### Portrait option button

Select this feature to print the document in **Portrait** orientation. This is the default setting.

### Landscape option button

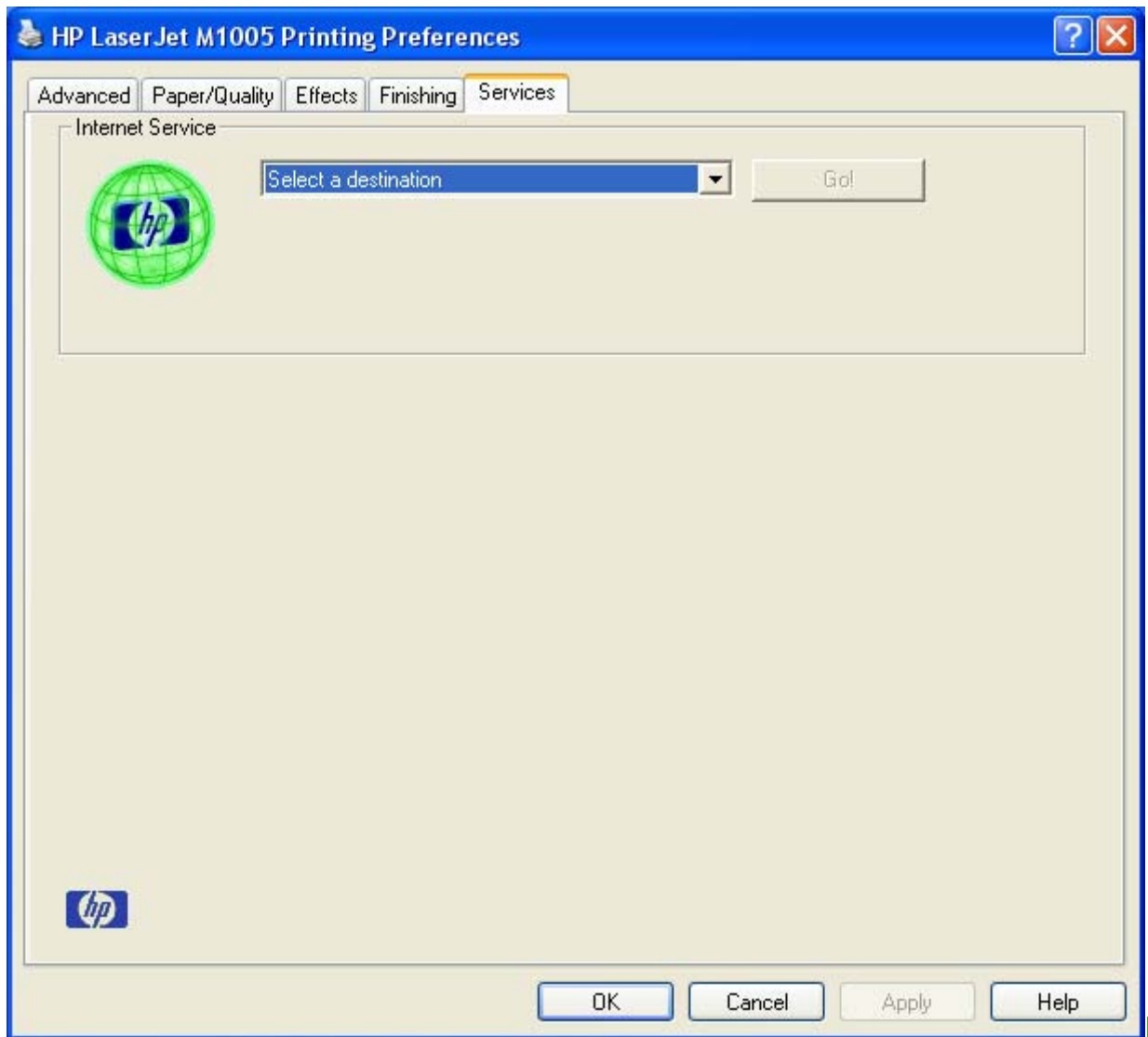
Select this feature to print the document in **Landscape** orientation.

### Rotate by 180 degrees check box

Select this feature to rotate the document image on the paper 180°. For example: If the return address on an envelope is smudged, try using this setting and feed the envelope so that the return address area is fed into the device first.

## Services tab features

Use the **Services** tab to gain access to Internet services for the device. The following illustration shows the **Services** tab.



**Figure 4-15** Services tab

The **Services** tab contains the **Select a destination** drop-down menu with the following selections:

- **Support and Troubleshooting**
- **Product Manuals**
- **Check for Driver Updates**
- **Order Supplies**

If you have Internet access, select any of these items and then click **Go!** to open the corresponding HP Web page.

## Properties tab set

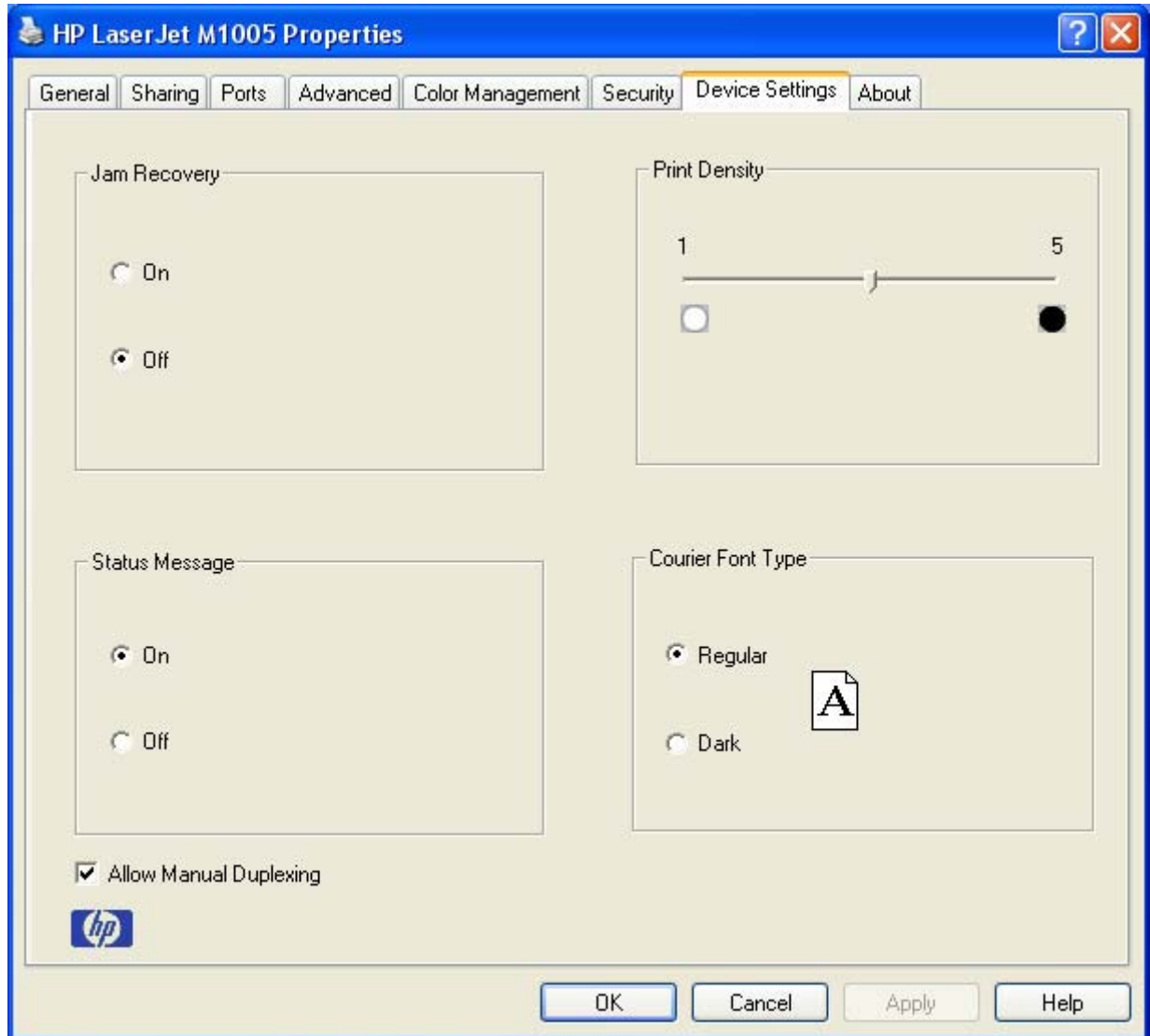
Topics:

- [Device Settings tab features](#)

- [About tab features](#)

## Device Settings tab features

Use the **Device Settings** tab to control driver behavior and driver connections. The following illustration shows the **Device Settings** tab.



**Figure 4-16** Device Settings tab

### Jam Recovery

Select **On** to reprint a page if a paper jam occurs. Select **Off** to not reprint a page if a paper jam occurs. **Off** is the default setting.



**NOTE** Jobs print faster when **Off** is selected.

### Print density

Use this control to specify how much toner is put on the page. **3** is the default setting.

## Status Message

Select **On** to allow error messages to display on the computer screen during error conditions. Select **Off** to not allow error messages to display on the computer screen during error conditions. **On** is the default setting.



**NOTE** The paper-out message still appears when **Off** is selected.

## Courier Font Type

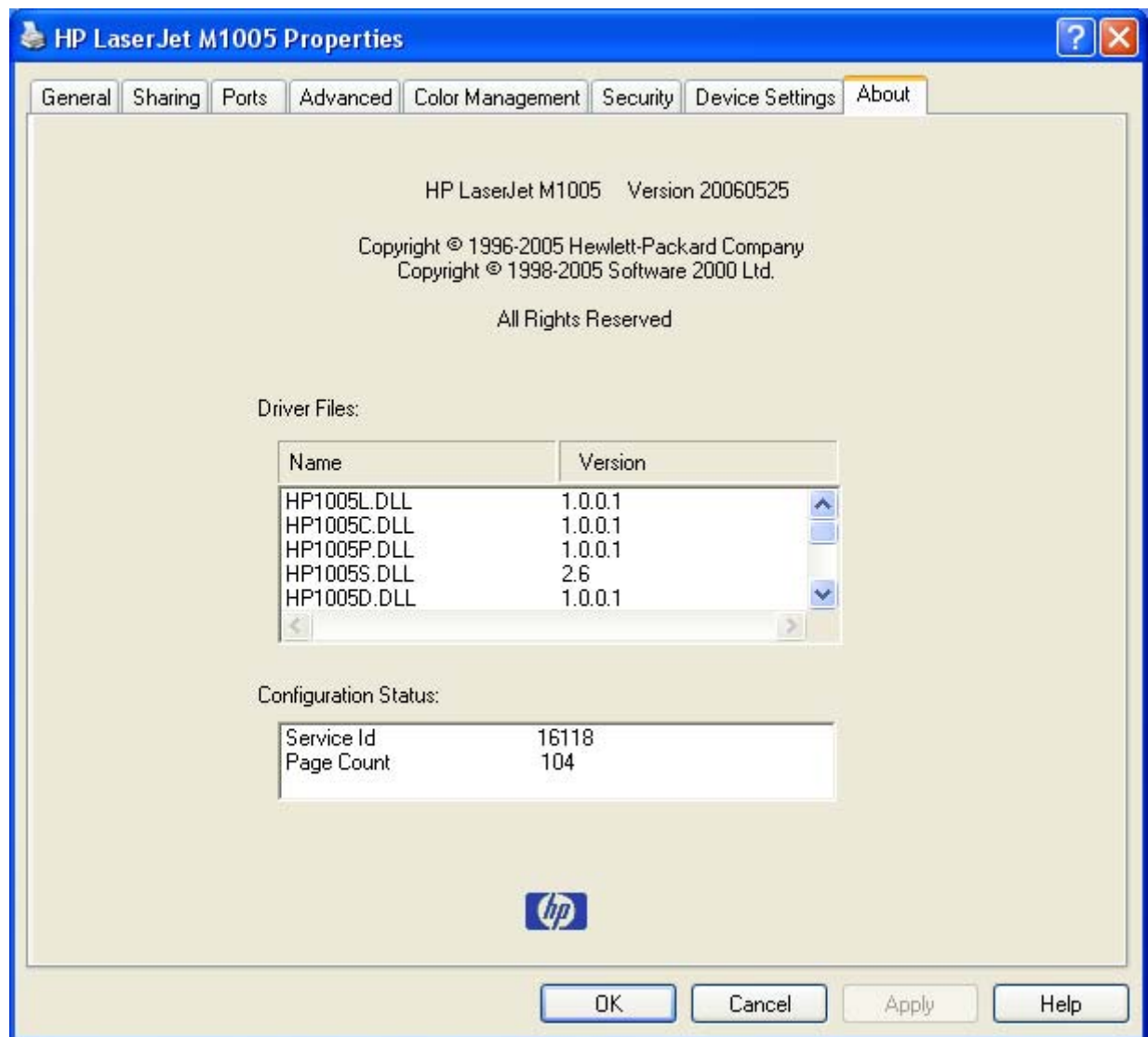
Select **Regular** to print any text by using TrueType Courier or Courier New with normal weight. Select **Dark** to print any text by using TrueType Courier or Courier New with a dark weight but without changing the font attributes in a program. **Regular** is the default setting.

## Allow Manual Duplexing

Use this setting to allow printing on both sides of a page using manual two-sided printing. This option is selected by default.

## About tab features

The **About** tab provides detailed information about the driver. It contains an overall build number after the model name, and specific information about each of the components. The information varies according to the HP LaserJet M1005 MFP model, driver, date, and version numbers. The following illustration shows the **About** tab.



**Figure 4-17 About tab**

**Driver Files:**

The **Driver Files:** box lists driver installation file names and their version numbers.

**Configuration Status:**

The **Configuration Status:** box lists the Service Id number and the page count.

# 5 Macintosh

## Introduction

The HP LaserJet M1005 MFP comes with printing software and installers for Apple Computer, Inc., Macintosh operating systems.

Topics:

- [Macintosh printing-system software](#)
- [Macintosh install and uninstall instructions](#)
- [Macintosh remote firmware updates](#)
- [TWAIN driver user interface \(Macintosh\)](#)

## Macintosh printing-system software

The HP LaserJet M1005 MFP printing system for Macintosh is composed of the Printer Setup Utility (Mac OS X V10.3 and later) and HP-created printer dialog extension (PDE) files. The driver uses these files to determine the features and postscript commands that the device supports. The following components are installed:

- The HP LaserJet Installer for Mac OS X V10.3 and later
- LIBRARY/PRINTERS/PPDS/CONTENTS/RESOURCES/LANGUAGE.LPROJ (for Mac OS X)



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**NOTE** Installation CD version 1.0 does *not* support the Intel-based Macintosh operating system.

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Topics:

- [System requirements](#)
- [Availability](#)

## System requirements

- G3, G4, or G5 PowerPC processor
- Mac OS X V10.3 and later, with 128 MB RAM and 50 MB of available hard-disk space
- CD-ROM drive or Internet connection

## Availability

This document provides information about the availability of the HP LaserJet M1005 MFP printing-system software and related software and firmware. Printing-system software on a CD is available from HP fulfillment centers.

Topics:

- [Software on the Web](#)
- [In-box printing-system software CDs](#)

## Software on the Web

All software that is contained on the installation CD is also available on the Web.

Web deployment is the preferred method for obtaining the latest software. The Web site offers an option for automatic e-mail notification about new software releases.



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**NOTE** This document describes drivers that are shipped with the printing-system software CD. This document does *not* describe any drivers that support personnel might release.

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Topics:

- [Macintosh software](#)
- [Software component availability](#)



## Macintosh software

The HP LaserJet M1005 MFP software is available for download at the following Web site:

[www.hp.com/go/ljM1005\\_software](http://www.hp.com/go/ljM1005_software)

## Software component availability

The following HP LaserJet software components are available:

- PDE files for Mac OS X V10.3 and later

## In-box printing-system software CDs

The software CD for the HP LaserJet M1005 MFP contains the files for installing the software on the computer.

Topics:

- [Macintosh partition](#)
- [CD versions](#)

## Macintosh partition

The HP LaserJet M1005 MFP software CD is divided into two partitions, one for each of the following operating systems:

- MS Windows
- Macintosh

The Macintosh software files are grouped by language and reside in the following directories:

- Mac OS X (the HP LaserJet Installer)
- PDF (manuals)

## CD versions

The software CD for the HP LaserJet M1005 MFP contains the files for installing the software on the computer.

The HP LaserJet M1005 MFP software CD (Part No. CB376A-60121) is available in a single version which contains software in various languages:

- DE = German (Deutsch)
- EN = English
- ES = Spanish (Español)
- FR = French (Français)
- IT = Italian (Italiano)
- NL = Dutch (Nederland)

# Macintosh install and uninstall instructions

The HP LaserJet M1005 MFP comes with software and installers for MS Windows and Apple Computer, Inc., Macintosh systems. The following information includes procedures for installing and removing the HP LaserJet M1005 MFP printing-system software for Macintosh operating systems.

Topics:

- [Macintosh component descriptions](#)
- [Install the Macintosh software](#)
- [Uninstall](#)

## Macintosh component descriptions

The device includes the following software for Macintosh computers:

- PDEs for Mac OS X V10.3 and later

Topics:

- [PDEs](#)
- [Install notes](#)
- [Online help](#)
- [Screen fonts](#)

### PDEs

Printer Dialog Extensions (PDEs) are code plug-ins (for Mac OS X V10.3 and later only) that provide access to device features, such as number of copies, duplexing, and quality settings.

### Install notes

This text file contains important information about device features, instructions for installing the printing-system software, and technical assistance.

### Online help

This HTML-based help system replaces the Apple Guide help system that was provided with Mac OS 9.x HP devices. The help system is in English only, and can be viewed through a browser or in the Macintosh OS Help Center.

### Screen fonts

The software for Macintosh operating systems no longer includes a font installer. The HP LaserJet M1005 MFP printer uses previously installed system fonts when it is installed on a Macintosh computer.

## Install the Macintosh software

On a Macintosh computer, the installation procedures are basically the same for a network administrator, a network client, or a single user. Install the software on any computer that has access rights to the device.

Topics:

- [General installation for Macintosh operating systems](#)
- [Installation dialog-box options for Macintosh](#)
- [Device setup](#)

## General installation for Macintosh operating systems

1. Insert the Macintosh software CD into the CD-ROM drive.



**NOTE** If the CD screen does not open automatically, double-click the **HP LaserJet M1005 MFP** CD-ROM icon on the desktop to open the CD-ROM window.

2. Double-click the Mac OS X icon.



**NOTE** The **Continue** button appears only after you type the "admin" password in the **Authenticate** dialog box.

3. The main **Installer** dialog box appears. Click **Install** and then follow the onscreen instructions to complete the software installation.



**NOTE** Be patient when you are installing the software. The installer must perform an initial search of the computer for up to 1 minute. During this time the installer might appear to be stalled.

4. When software installation is complete, click **Restart**.
5. Continue with the steps for setting up a device.

The software program used to finish setting up the device varies by operating system. The following table shows the print setup tools that are available.

**Table 5-1** Adding a printer in Macintosh operating systems

Operating System	Print Center	Printer Setup Utility
Mac OS X V10.3.9		x
Mac OS X V10.4.1	x	x

## Installation dialog-box options for Macintosh

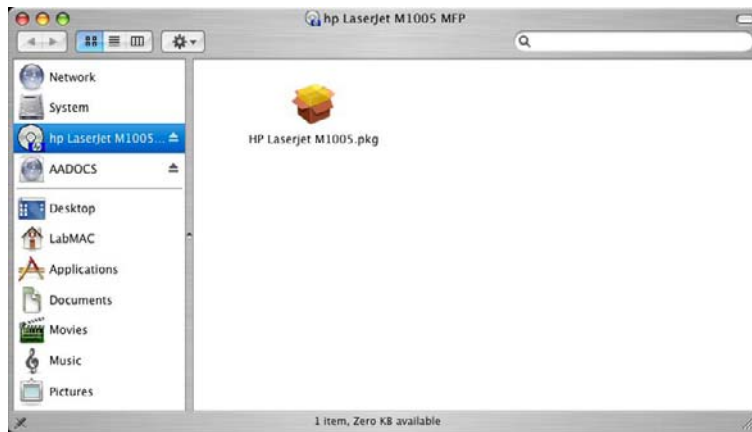
The following sequence describes the dialog box options that appear during the HP LaserJet M1005 MFP software installation on Macintosh systems.

To begin the installation, insert the HP LaserJet M1005 MFP software CD into the CD-ROM drive.



**Figure 5-1** Step 1 - Insert the HP LaserJet M1005 MFP software CD

Double-click the **HP LaserJet M1005 MFP** icon that appears on the desktop.



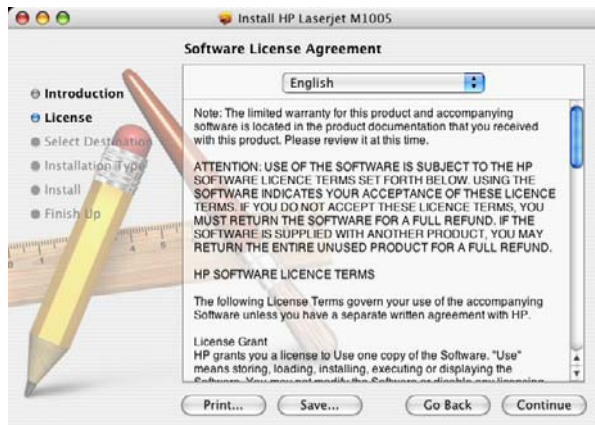
**Figure 5-2** Step 2 - Run the printing-system software CD

Double-click the **HP LaserJet M1005 MFP** folder.



**Figure 5-3** Step 3 - Main CD screen

Click **Continue**.



**Figure 5-4** Step 4 - License agreement, screen 1

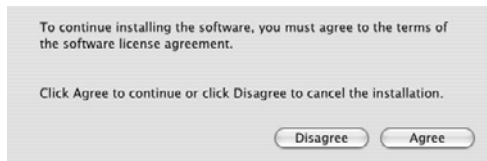
In the drop-down menu at the top of the screen, select the language for the installation.

**Print...** opens the **Page Setup** dialog box for your default printer so that you can print a copy of the license agreement.

**Save** opens the system **Save** dialog box so that you can save the text of the software license agreement to disk.

**Continue** presents the option to agree or disagree to the terms of the software license agreement.

**Go Back** returns you to the main CD screen.



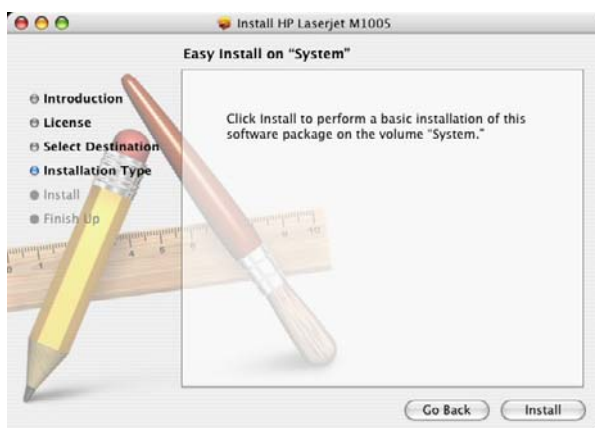
**Figure 5-5** Software License Agreement, screen 2

Click **Agree** to continue the installation.



**Figure 5-6** Step 5 - Select a destination

Select the drive on which you want to install the software.



**Figure 5-7** Step 6 – Easy Install process

The **Easy Install** option is the default.

Click **Go Back** to select a different destination.

Click **Install** to begin the installation process.



**Figure 5-8** Step 7 - Authenticate

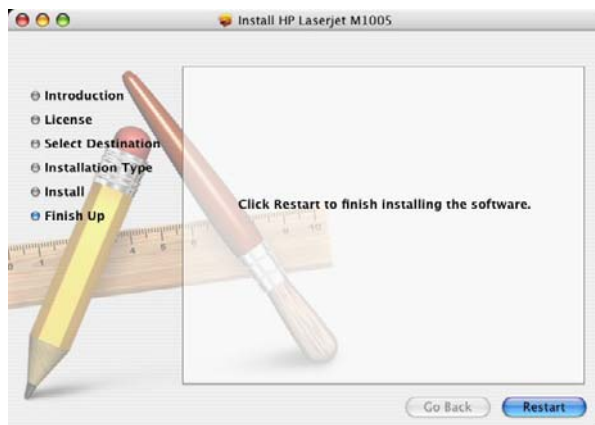
Type the username and the password that provides administrator privileges, and then click **OK** to continue.

Click **Cancel** to close the installer.



**Figure 5-9** Step 8 - Install files

The **Installing** dialog box appears, showing the progress of the installation.



**Figure 5-10** Step 9 - Restart

Click **Restart** to restart the computer and finish the installation.

## Device setup

After installing the software in Macintosh operating systems, the device must be set up.

1. In the **Applications** folder, open the **Utilities** folder, and then run the **Printer Setup Utility**. The **Printer List** appears.
2. Connect the USB cable to the computer and the device, and then turn on the device to continue the setup.
3. The device appears in the **Printer List**, as shown in the following figure.



Figure 5-11 Printer List screen

## Uninstall

Topics:

- [Uninstall the Macintosh software](#)

### Uninstall the Macintosh software

To uninstall the Macintosh software, do the following:

1. In the **Applications** folder, open the **Utilities** folder, and then run the **Printer Setup Utility**. The **Printer List** appears.
2. Highlight the device name, and then click **Delete**.

# Macintosh remote firmware updates

Topics:

- [Remote firmware update by using the HP Printer Utility](#)

## Remote firmware update by using the HP Printer Utility

Make sure that the tools and files that are necessary for the update are available. Get the HP Printer Utility and the M1005 MFPPFW.RFU file, which is the firmware file for the device. The HP Printer Utility is a software program that is available only for Mac OS X V10.3 and later.

The HP Printer Utility and the firmware file (M1005 MFPPFW.RFU) can be downloaded from the following Web site:

[www.hp.com/go/ljM1005\\_firmware](http://www.hp.com/go/ljM1005_firmware)

Get the firmware file and the HP Printer Utility, and then begin the update process. Complete the following steps:

1. Open the HP Printer Utility.
2. Select **Update Firmware**, click **Choose**, browse to firmware upgrade file, and then click **Open**.
3. On the **Update Firmware** screen, click **Update**.



---

**NOTE** If an error message appears on the screen indicating that the device is offline, verify that the device is turned on. If it is, ignore the message. The **Updating** screen appears and the update proceeds as expected.

---

4. The update process can take several minutes. Let the process finish without further interaction with the device or the computer. The messages described in the section [Device messages during the firmware update](#) appear on the control panel.



---

**NOTE** The device automatically turns off and then on again to activate the update; this can happen more than once. At the end of the update process, the **READY** message appears on the control panel. Do *not* turn off the device or interfere with the update until this message appears.

---

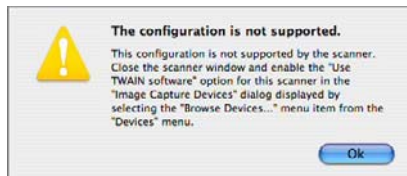
5. Print a configuration page and verify that the firmware revision number matches the revision of the current update.



## TWAIN driver user interface (Macintosh)

To scan a page:

1. Place the page to be scanned on the flatbed scanner
2. Open the Macintosh Image Capture program. The **The configuration is not supported.** screen appears.



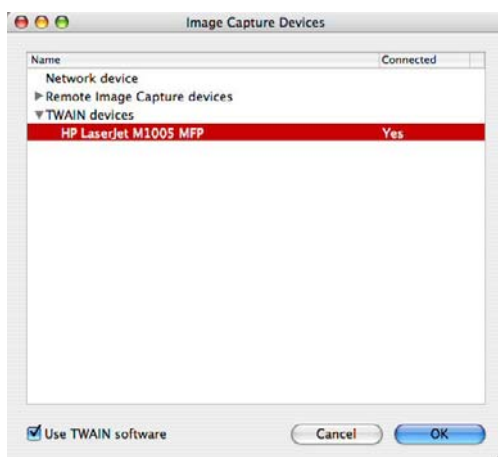
**Figure 5-12** The configuration is not supported. screen (Macintosh)

Click **OK**.



**NOTE** The **The configuration is not supported.** screen *only* appears the first time that you scan an image using the TWAIN software.

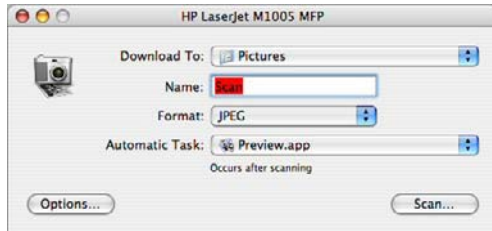
3. In the toolbar, click **Devices**, and then click **Browse devices**. The **Image Capture Devices** screen appears.



**Figure 5-13** Image Capture Devices screen (Macintosh)

Highlight the device name, select the **Use TWAIN software** option, and then click **OK**.

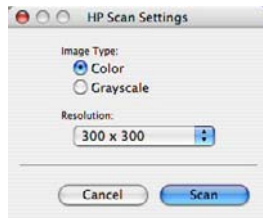
4. In the toolbar, click **Devices**, and then click **Browse devices**. The **Image Capture Devices** screen appears again. Highlight the device name. In the toolbar, select **Options**, and then click **Scan....** The HP LaserJet M1005 MFP preview image settings screen appears.



**Figure 5-14** HP LaserJet M1005 MFP preview image settings screen (Macintosh)

Select the options for the final scan, and then click **Scan....**

The HP LaserJet M1005 MFP scans a preview image of the page on the flatbed scanner and the **HP Scan Settings** screen appears.



**Figure 5-15** HP Scan Settings screen (Macintosh)

The **Scan Settings** screen contains the following options, drop-down menus, and buttons:

- **Image Type.** Use this option to set the image type.
- **Resolution.** Use this drop-down menu to set the resolution for the scan. This drop-down menu contains the following options:
  - **150 x 150**
  - **300 x 300** (default)
  - **600 x 600**
  - **1200 x 1200**
- **Cancel.** Use this button to cancel the scan.
- **Scan.** Use this button to complete the final scan.

# 6 Engineering Details

## Introduction

Topics:

- [Media attributes](#)
- [Remote firmware updates](#)

## Media attributes

Topics:

- [Media sources and destinations](#)
- [Driver-supported media sizes](#)
- [Driver-supported media types](#)
- [Custom paper sizes](#)

## Media sources and destinations

The following table indicates the standard media sources and destination for the HP LaserJet M1005 MFP.

**Table 6-1** HP LaserJet M1005 MFP media sources and destination

<b>Media sources</b>	10-sheet or 3-envelope manual feed tray	Standard
	150-sheet paper or 10-envelope tray (tray 1)	Standard
<b>Media destination</b>	100-sheet output bin	Standard

## Driver-supported media sizes

The following table lists the features and attributes of various media listed under the **Size Is:** drop-down menu on the **Paper** tab. The list order can vary, depending on the device and operating system. The list contains all of the following sizes, and might contain sizes from other drivers.

**Table 6-2** Supported media sizes and attributes

<b>Paper sizes</b>	<b>Width</b>	<b>Height</b>
Letter	216 mm	279 mm
	(8.5 inches)	(11.0 inches)
Letter-R	279 mm	216 mm
	(11 inches)	8.0 inches
Statement	140 mm	216 mm
	(5.5 inches)	(8.5 inches)
8K	269 mm	391 mm
	(10.6 inches)	(15.4 inches)
8K	259 mm	368 mm
	(10.2 inches)	(14.5 inches)
8K	273 mm	394 mm
	(10.75 inches)	(15.5 inches)
16K	184 mm	260 mm

**Table 6-2** Supported media sizes and attributes (continued)

Paper sizes	Width	Height
	(7.24 inches)	(10.24 inches)
16K	195 mm	197 mm
	(7.68 inches)	(7.75 inches)
16K	273 mm	197 mm
	(10.75 inches)	(7.75 inches)
8.5 x 13	216 mm	330 mm
	(8.5 inches)	(13 inches)
A4	211 mm	297 mm
	(8.3 inches)	(11.69 inches)
A5	147 mm	211 mm
	(5.8 inches)	(8.3 inches)
A6	105 mm	148 mm
	(4.14 inches)	(5.83 inches)
B5 (JIS)	183 mm	257 mm
	(7.2 inches)	(10.1 inches)
B6	128 mm	182 mm
	(5.1 inches)	(7.2 inches)
S Postcard (JIS)	100 mm	148 mm
	(3.94 inches)	(5.83 inches)
D Postcard (JIS)	100 mm	200 mm
	(3.94 inches)	(7.87 inches)
D Postcard (JIS)	148 mm	200 mm
	(5.83 inches)	(7.87 inches)
Envelope #10	105 mm	241 mm
	(4.13 inches)	(9.5 inches)
Envelope B5	176 mm	250 mm
	(6.93 inches)	(9.84 inches)
Envelope C5	162 mm	229 mm
	(6.38 inches)	(9.02 inches)
Envelope DL	110 mm	220 mm
	(4.33 inches)	(8.66 inches)
Envelope Monarch	99 mm	190 mm
	(3.88 inches)	(7.5 inches)
Executive	185 mm	267 mm

**Table 6-2** Supported media sizes and attributes (continued)

Paper sizes	Width	Height
	(7.3 inches)	(10.5 inches)
Executive (JIS)	216 mm	330 mm
	(8.5 inches)	(13.0 inches)
Legal	216 mm	356 mm
	(8.5 inches)	(14.0 inches)
Custom	Minimum:	Minimum:
	76 mm	127 mm
	(3.0 inches)	(5.0 inches)
	Maximum:	Maximum:
	216 mm	356 mm
	(8.5 inches)	(14.0 inches)

## Driver-supported media types

The following table shows the media types that the HP LaserJet M1005 MFP print-drivers support.

**Table 6-3** Supported input media types

Media types (command string)	Manual feed tray	Tray 1 (150-sheet)	Manual duplexing
Unspecified	Y	Y	Y
Plain	Y	Y	Y
HP Multipurpose Paper	Y	Y	Y
HP Office Paper	Y	Y	Y
HP All-in-one Printing Paper	Y	Y	Y
HP LaserJet Paper	Y	Y	Y
HP Premium Choice LaserJet Paper	Y	Y	Y
Preprinted	Y	Y	Y
Letterhead	Y	Y	Y
Transparency	Y	Y	N
Prepunched	Y	Y	Y
Labels	Y	Y	N
Bond	Y	Y	Y
Recycled	Y	Y	Y
Color	Y	Y	Y
Light (< 75 g/m <sup>2</sup> )	Y	N	Y
Heavy (90 – 105 g/m <sup>2</sup> )	Y	Y	N

**Table 6-3** Supported input media types (continued)

Media types (command string)	Manual feed tray	Tray 1 (150-sheet)	Manual duplexing
Cardstock (105 – 176 g/m <sup>2</sup> )	Y	Y	N
Envelope	Y	Y	N
Rough	Y	Y	N

## Custom paper sizes

The following table shows custom paper sizes that are available for the HP LaserJet M1005 MFP.

**Table 6-4** Custom media sizes

Tray	Dimensions	Minimum	Maximum
Manual feed tray)	Width	76 mm (3.0 inches)	312 mm (12.28 inches)
	Height	127 mm (5.0 inches)	470 mm (18.5 inches)
Tray 1 (150-sheet)	Width	148.0 mm (5.83 inches)	297 mm (11.7 inches)
	Height	210 mm (8.26 inches)	432 mm (17 inches)

## Remote firmware updates

The HP LaserJet M1005 MFP features remote firmware update (RFU) capability. The method for downloading remote firmware updates from the Web site is similar to that used to download the latest printing-system software and print drivers.

The process for remotely upgrading firmware involves three steps:

1. Determine the current level of firmware that is installed on the device.
2. Go to the HP Web site and download the latest firmware to the computer.
3. Download the new firmware to the device.

Topics:

- [Print a configuration page](#)
- [Downloading the new firmware from the HP Web site](#)
- [Download new firmware to the device](#)
- [Device messages during the firmware update](#)

### Print a configuration page

To determine the current level of firmware, view the configuration page. To print a configuration page, follow these instructions.

1. Press ✓ (the **select** button; the one with the check mark) to open the menus.
2. Press ▲ (the **up** button) or ▼ (the **down** button) to scroll to **INFORMATION**, and then press ✓ (**select**).
3. Press ▲ (**up**) or ▼ (**down**) to scroll to **PRINT CONFIGURATION**.
4. Press ✓ (**select**) to print the configuration page.
5. Look in the "Printer Information" section on the configuration page for the firmware date code. The firmware date code looks something like this: 20051002 07.000.0.

### Downloading the new firmware from the HP Web site

The firmware update file and an associated readme file are packaged together as a self-extracting .EXE file. For detailed instructions about how to download the .EXE file, go to the following URL:

[www.hp.com/go/ljM1005\\_firmware](http://www.hp.com/go/ljM1005_firmware)

### Download new firmware to the device

For support information about downloading new firmware from the Web, go to [www.hp.com/support/ljM1005](http://www.hp.com/support/ljM1005).

The device can receive a firmware update when the device is in a **READY** state. The device waits for all of the I/O channels to become idle before performing the update.





**NOTE** If the firmware update involves a change in the format of nonvolatile random-access memory (NVRAM), any menu settings that are changed from the default settings will return to default settings. The settings must be changed again if you want them to be different from the defaults. Examples of settings that are affected in this way are tray types, default symbol sets, and Web-access alerts.

The elapsed time for an update depends on the I/O transfer time, as well as the time that it takes for the device to reinitialize. The I/O transfer time depends on a number of things, including the speed of the host computer that is sending the update and the I/O method (parallel or network). The reinitialization time depends on the specific hardware configuration of the device, such as the number of EIO devices installed, the presence of external paper-handling devices, and the amount of memory that is installed.

Finally, any print jobs that are ahead of the RFU job in the queue are printed before the update is processed.

Use one of the methods described in this manual to update the device firmware.

## Device messages during the firmware update

The following table lists the causes and results of possible interruptions to the firmware update.

**Table 6-5** Troubleshooting a firmware update

Cause	Result
The job was cancelled from the control panel.	No update has occurred.
A break in the I/O stream occurred during send (for example, the parallel cable was removed).	No update has occurred.
A power cycle occurred during the <b>RECEIVING UPGRADE</b> process.	No update has occurred.
A power cycle occurred during the <b>PERFORMING UPGRADE</b> process.	No update has occurred. Resend the update through a parallel port.
A power cycle occurred during the <b>INITIALIZING</b> process.	The update has been completed.

Print jobs that are sent to the device while an update is in process do not interrupt the update.

All HP LaserJet devices leave the factory with the most recent firmware version installed. If a remote firmware update fails in an MS Windows operating system, the .RFU file must be resent.

If a remote firmware update fails in a Macintosh operating system, contact support from an HP Customer Care Center.

The following table lists possible reasons for the failure of a remote firmware update and the corrective action required for each situation.

**Table 6-6** Troubleshooting a firmware update failure



Reason for firmware update failure	Corrective action
The .RFU file is corrupted.	The device recognizes that the file is corrupted and rejects the update. Download the file again and send the new file to the device. Download the file from <a href="http://www.hp.com/go/ljm1005_firmware">www.hp.com/go/ljm1005_firmware</a> .

**Table 6-6** Troubleshooting a firmware update failure (continued)

Reason for firmware update failure	Corrective action
The wrong device is contained in the .RFU file.	The device recognizes the device mismatch and rejects the update. Download the correct file and send it to the device. Download the file from <a href="http://www.hp.com/go/ljM1005_firmware">www.hp.com/go/ljM1005_firmware</a> .
The upgrade was interrupted.	See <a href="#">Table 6-7 Update messages</a> .
A flash hardware failure occurred.	Although it is extremely unlikely, the device might have a hardware failure. Call technical support to address the problem (see the flyer that came with the device for a local telephone support list).

Three messages appear during a normal update process; a fourth (RESEND UPGRADE) appears only if the update process does not succeed.

**Table 6-7** Update messages

Device message	Explanation
<b>RECEIVING UPGRADE</b>	<p>This message appears from the time the device recognizes the beginning of an .RFU update until the time the device has verified the validity and integrity of the .RFU update.</p> <p> <b>NOTE</b> If the remote firmware update process is interrupted before the firmware is downloaded (while <b>RECEIVING UPGRADE</b> appears on the control-panel display), the firmware file must be sent again. No message appears on the device control panel to indicate that the update was interrupted.</p>
<b>PERFORMING UPGRADE</b>	<p>This message appears while the device is reprogramming the firmware.</p> <p> <b>NOTE</b> If power is lost during the flash DIMM update (while <b>PERFORMING UPGRADE</b> appears on the control-panel display), the update is interrupted and the message <b>RESEND UPGRADE</b> appears on the control-panel display.</p>
<b>INITIALIZING</b>	This message appears from the time that the device has finished reprogramming the DIMM until the device reinitializes.
<b>RESEND UPGRADE</b>	This message appears (in English only) if the firmware update fails because the RFU process is interrupted. It can also occur if firmware for accessories (such as the duplex unit or an output device becomes is corrupted. Perform another update by any means that is supported by the device, regardless of the connection (network, parallel, or USB).
<b>RFU LOAD ERROR</b> <b>SEND RFU UPGRADE</b>	This message appears (in English only) if the firmware update fails because the print-engine firmware is corrupted.



**NOTE** To verify that the firmware update succeeded, print a new configuration page from the control panel and verify that the firmware date code on the configuration page has changed.

# Index

## Symbols/Numerics

% of Normal Size setting 69

## A

About tab 81  
accessibility 10  
Actual Size settings 68  
ADA (Americans with Disabilities Act) compliance 10  
Adobe Acrobat Reader  
installing 15  
viewing documentation 9  
Advanced tab features 55  
agreement, software license  
Macintosh 88  
Windows 41  
Allow Manual Duplexing 81  
Americans with Disabilities Act (ADA) compliance 10  
autorun CD-ROM, Windows 15

## B

Basic Installation, Windows 15  
binding settings 75  
black, printing text as 57  
booklets 75  
both sides, printing on  
allowing 81  
media supported 98  
settings 74

## C

cartridges 3  
CD-ROM  
directory structure,  
Macintosh 85  
directory structure,  
Windows 5  
documentation 9, 15

installer, Windows  
software 14  
installing Macintosh  
software 87  
languages, Macintosh 85  
languages, Windows 7  
uninstalling or repairing  
Windows software 49  
CHM files, viewing 10  
client computers, setting up 38  
Collate option 56  
color text, printing as black 57  
common installer, features 15  
components, software  
availability 5  
configuration page, printing 100  
context-sensitive help 54  
Copy option 56  
Courier Font Type 81  
covers, paper settings 60, 63  
Custom Installation, Windows 15  
custom paper sizes  
settings 61  
supported 99

## D

default settings 53  
density settings 80  
destinations, paper 96  
Device Settings tab 80  
device setup, Macintosh 91  
dialog boxes, Macintosh  
installation 87  
dialog boxes, Windows installation  
about 40  
Exit Setup 45  
HP Extended Capabilities 43  
HP Software License  
Agreement 41  
Settings 42

Setup 43  
Setup Complete 44  
Welcome 40  
directory structure, software CD-ROM  
Macintosh 85  
Windows 5  
disk space requirements  
Macintosh 84  
Windows 4  
Document Options 74  
document preview image 65  
documentation  
install notes 10  
printing quick set 59  
User Guide 10  
viewing 9, 15  
double-sided printing  
allowing 81  
media supported 98  
settings 74  
downloading  
firmware 100  
Macintosh software 85  
Windows software 5  
dpi (dots per inch)  
Print Quality settings 65  
specifications 3  
drivers  
About tab 81  
accessing 53  
Device Settings tab 80  
direct connection  
installation 37  
document preview image 65  
Effects tab 66  
Finishing tab 72  
Help system 54  
host-based printing, about 52  
included 16

- Macintosh 84
- Paper/Quality tab 57
- Printer Properties tab 53
- Printing Preferences tab 53
- Printing Preferences tab
  - set 55
- Properties tab set 79
- Quick Sets 58
- scan 22, 93
- Services tab 78
- standalone 4
- version numbers 16

- duplexing
  - allowing 81
  - media supported 98
  - settings 74

**E**

- e-mail programs supported 22
- EconoMode 65
- Effects tab 66
- Entourage, Microsoft 22
- error message settings 81
- Exit Setup dialog box 45
- Extended Capabilities dialog
  - box 43
- Extended Capabilities, HP 17

**F**

- FastRes 65
- features, hardware 3
- file formats, scanning 20
- Finishing tab 72
- firmware
  - determining current level 100
  - downloading 100
  - Macintosh updates 92
  - messages during update 101
  - troubleshooting updates 101
  - updating remotely 100
  - verifying installation 102
- first page out 3
- Flip Pages Up settings 75
- fonts
  - Courier settings 81
  - Macintosh 86
- Full Installation, Windows 15

**G**

- guides. See documentation

**H**

- help
  - context-sensitive 54
  - host-based driver 54
  - Macintosh 86
  - What's this 54
- host computer, setting up 38
- host-based driver
  - about 52
  - About tab 81
  - accessing 53
  - Device Settings tab 80
  - direct connection
    - installation 37
  - document preview image 65
  - Effects tab 66
  - Finishing tab 72
  - Help system 54
  - operating systems
    - supported 16
  - Paper/Quality tab 57
  - Printer Properties tab 53
  - Printing Preferences tab 53
  - Printing Preferences tab
    - set 55
  - Properties tab set 79
  - Quick Sets 58
  - Services tab 78
  - version number 16
- HP Extended Capabilities 17
- HP Extended Capabilities dialog
  - box 43
- HP LaserJet M1005 MFP Setup
  - dialog box 43
- HP LaserJet Scan software 19
- HP Printer Utility, Macintosh 92
- HP Software License Agreement
  - dialog box
    - Windows 41
- HP Status Application 18
- HP Toolbox, not supported 13
- HTML files, viewing 10

**I**

- input trays. See trays
- install notes 10
- installation
  - Adobe Acrobat Reader 15
  - dialog boxes, Macintosh 87, 91

- direct connections 37
- Macintosh software 87
- options 36
- system requirements for
  - Macintosh 84
  - system requirements for
    - Windows 4
  - Windows dialog boxes 40
- installers
  - common, features 15
  - Windows 14

**J**

- Jam Recovery options 80

**L**

- landscape orientation
  - Flip Pages Up 75
  - option 78
- languages
  - CD-ROMs, Macintosh 85
  - Readiris software 32
  - Windows CD-ROMs 7
  - Windows directory structure 5
- LaserJet Scan software 19
- license agreement
  - Macintosh 88
  - Windows 41
- localized versions
  - Macintosh 85
  - Readiris software 32
  - Windows CD-ROMs 7
  - Windows directory structure 5
- Lotus Notes 22

**M**

- Macintosh
  - components, software 86
  - device setup 91
  - dialog boxes, installation 87
  - directory structure, software CD-ROM 85
  - documentation 9
  - firmware upgrades 92
  - fonts supported 86
  - host-based driver support 16
  - install notes 86
  - installing software 87
  - localized software CDs 85
  - online help 86

- operating systems
  - supported 4
- PDEs 86
- software components 84
- software license
  - agreement 88
- system requirements 84
- TWAIN options 93
- uninstalling software using
  - utility 91
- Web sites, software 84
- manual feed tray
  - capacity 3
  - media supported 98
- manuals. *See* documentation
- media. *See* paper
- media type warnings 54
- memory
  - installation requirements for
    - Macintosh 84
  - installation requirements for
    - Windows operating
      - systems 4
  - product, included 3
- Microsoft Entourage 22
- Microsoft Outlook 22
- Microsoft Windows. *See* Windows

## N

- networks, peer-to-peer 37
- number of copies 56

## O

- OCR
  - accuracy 32
  - file types supported 20
  - languages supported 32
  - software programs
    - supported 32
- operating systems
  - availability of software
    - components 5
  - host-based driver support 16
  - standalone drivers 4
  - supported 4
- optical character recognition. *See* OCR
- orientation, page
  - Flip Pages Up 75
  - options 78

- Outlook 22

## P

- page orientation
  - Flip Pages Up 75
  - options 78
- pages per minute 3
- Pages per Sheet settings 76
- paper
  - Allow Manual Duplexing 81
  - custom sizes supported 99
  - custom sizes, settings 61
  - driver settings 59
  - Jam Recovery options 80
  - Pages per Sheet settings 76
  - Print Document On
    - settings 68
  - Print on Both Sides
    - settings 74
  - Scale to Fit setting 68
  - Size is settings 60
  - Source is settings 62
  - sources and destinations 96
  - tray capacities 3
  - Type is settings 62
  - types and sizes supported 96
  - types supported 98
  - Use Different Paper/Covers
    - option 60, 63
- Paper Options 59
- paper type warnings 54
- Paper/Output settings 56
- Paper/Quality tab 57
- PDEs (Printer Dialog
  - Extensions) 86
- PDF files
  - installing Adobe Acrobat
    - Reader 15
  - viewing 10
- peer-to-peer networking 37
- Percent of Normal Size
  - setting 69
- port specifications 3
- portrait orientation
  - Flip Pages Up 75
  - options 78
- preview image 65
- Print all Text as Black 57
- print cartridges 3
- Print density settings 80

- Print Document On settings 68
- Print on Both Sides
  - allowing 81
  - media supported 98
  - settings 74
- Print Quality settings 65
- Printer Dialog Extensions
  - (PDEs) 86
- Printer Features settings 57
- Printer List, Macintosh 91
- Printer Properties tab 53
- Printing Preferences tab set 53, 55
- printing User Guide 10, 59
- Properties tab set 79

## Q

- quality settings 65
- Quick Sets 58

## R

- Readiris software
  - file types supported 20
  - languages supported 32
  - reliability of OCR 32
- regional versions, CD-ROMs
  - Macintosh 85
  - Windows 5, 7
- remote firmware updates
  - about 100
  - determining current firmware
    - level 100
  - downloading 100
  - Macintosh 92
  - messages 101
  - troubleshooting 101
  - verifying installation 102
- removing Macintosh software
  - using utility 91
- removing Windows software
  - using installation CD 49
  - using wizard 46
- repairing installation errors 49
- Resizing Option settings 68
- resolution
  - Print Quality settings 65
  - specifications 3
- Resolution Enhancement
  - technology 57
- REt 57

rotated page orientation 78

## S

saving settings 58

Scale to Fit setting 68

scanning

    e-mail programs supported 22

    HP LaserJet Scan

        software 19

    methods 19

    settings 20

    TWAIN driver features 22

    TWAIN driver Windows

        features 23

    TWAIN Macintosh options 93

    WIA driver features 30

screen-readable

    documentation 10

Services tab 78

settings

    accessing 53

    Quick Sets 58

Settings dialog box 42

Setup Complete dialog box 44

Setup dialog box 43

sharing 37

size settings 68

sizes, paper

    custom 61, 99

    settings 60

    supported 96

software license agreement

    Macintosh 88

    Windows 41

Source is settings 62

sources, paper. *See* trays

speed specifications 3

standalone drivers 4

Status Application 18

Status Message settings 81

system requirements

    Macintosh 84

    Windows 4

## T

text-recognition software

    file formats supported 20

    languages supported 32

    reliability of 32

Toolbox, not supported 13

trays

    capacities 3

    included 96

    media supported 98

    Source is settings 62

troubleshooting

    firmware upgrades 101

    TWAIN 22

TWAIN driver

    features 22

    Macintosh options 93

    troubleshooting 22

    Windows options 23

two-sided printing

    allowing 81

    media supported 98

    settings 74

types, paper

    driver settings 62

    supported 98

## U

uninstalling Macintosh software

    using utility 91

uninstalling Windows software

    using installation CD 49

    using wizard 46

updating firmware remotely. *See*

    remote firmware updates

USB port specifications 3

Use Different Paper/Covers

    option 60, 63

User Guide

    printing 10

    printing quick set 59

    viewing 10

## V

version numbers, drivers 16

## W

watermarks 69

Web sites

    Adobe 15

    firmware 100

    Macintosh software 85

    TWAIN 23

    Windows software 5

Welcome dialog box 40

What's this Help 54

WIA driver 30

Windows

    availability of software

        components 5

    dialog boxes, installation 40

    directory structure, software CD-ROM 5

    documentation 9

    driver versions 16

    host-based driver support 16

    host-based printing 52

    installation options 36

    installer, CD-ROM 14

    installing software 37

    languages, CD versions 7

    operating systems

        supported 4

    sharing, setting up 37

    system requirements 4

    uninstalling software using

        installation CD 49

    uninstalling software using

        wizard 46

    What's this Help 54



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